HOLDEN

COMMODORE
CALAIS
UTILITY

OWNER'S HANDBOOK
VP SERIES

Owner's Name.....

Address .....

Town.....

State.....Postcode.....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

Model Name .....

Reg. No.....Eng. No. .....

Odometer Reading .....

Date of Purchase.....

Vehicle Identification Certificate

Selling
Dealer's
Stamp & Signature .....

CHANGE OF ADDRESS/OWNERSHIP

It may be necessary for General Motors-Holden's Automotive Ltd. Aust.Co.No. 006 893 232 (hereinafter Holden's) to contact Holden owners from time to time. Therefore, records are kept of owner's names and addresses.

So we can keep these records up to date, please complete the form on pages 11-52, 11-54 or 11-56 and post to Holden's, at the address shown on the back of this form if:

a) you change your address

b) you have purchased this vehicle from a previous owner.

Part No. 92045915
Dec 1992 (VP Print 8)

We thank you for choosing Holden's and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

This handbook applies to *all* VP models. Therefore, because of differing models and options, you may find reference in this handbook to some equipment not installed in *your* vehicle.

Please note that all information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden's reserves the right to make changes at any time without notice and without incurring any obligation.

Service requirements.

To ensure your vehicle's safety and performance it is important that your vehicle be regularly maintained and serviced. The Holden's maintenance plan is covered in chapter 11 of this Handbook.

Holden's recommend servicing be carried out at:

- 1,500 km or 1 month (whichever comes first)
- 10,000 km or 6 months (whichever comes first)
- 20,000 km or 1 year (whichever comes first)
- 30,000 km or 1.5 years (whichever comes first)

.....and every 10,000 km (or 6 months) thereafter.

You will note that page 11-7 lists the labour time, parts and lubricants required to complete the services.

Accessories

Holden's will *not* warrant non-genuine Holden's parts or accessories. Neither will any damage (resulting from fitting non-genuine parts and accessories) be covered by your New Vehicle Warranty. Please read page 6-2 and page 6-3 to familiarise yourself with the terms and conditions of the warranty provided with your new vehicle.

This Handbook was printed on recycled paper.

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The first page of each chapter contains a "chapter index"

Chapter 1 ..... **INSTRUMENT PANEL** ..... page 1-1

The first pages of this chapter illustrate the instrument panel, identifying the gauges, warning lights, controls and switches. Page reference numbers are listed next to each item.

Chapter 2 ..... **KNOW YOUR VEHICLE** ..... page 2-1

This section covers the other features of your vehicle, not appearing on the instrument panel. Features covered include keys and locks, seat adjustment, seat belts, child restraints, windows, mirrors, park brake etc.

Chapter 3 ..... **STARTING AND DRIVING** ..... page 3-1

Please read chapters 1 and 2 to familiarise yourself with your vehicle before proceeding to this section. This explains how to start your engine and the use of automatic and manual transmissions.

Chapter 4 ..... **FUEL** ..... page 4-1

This section covers areas related to fuel, including refuelling, emission control, tank capacities and how to reduce fuel consumption.

Chapter 5 ..... **ACCIDENTS & EMERGENCIES** ..... page 5-1

The first two pages of this chapter show what to do at the scene of an accident, including giving medical assistance. Following, are some emergency procedures, including wheel changing, starting when the battery is flat, engine overheating, and towing a disabled vehicle.

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Chapter 6 ..... **WARRANTY, AUTHORISED HOLDEN DEALERS, CUSTOMER ASSIST.** ..... page 6-1

This sets out the terms of your warranty, lists the Holden Dealers across Australia and explains what to do if you need Customer Assistance.

Chapter 7 ..... **WEEKLY CHECKS** ..... page 7-1

As well as taking your vehicle in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, automatic transmission fluid, brake and power steering fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your vehicle's light bulbs should the need arise.

Chapter 8 ..... **TOWING** ..... page 8-1

This has general guidelines regarding additional equipment to be used when towing a caravan or trailer - as well as loading capacities and safe towing tips.

Chapter 9 ..... **CLEANING** ..... page 9-1

Listed are the cleaning agents (and their application) that you should use to look after your vehicle.

Chapter 10 ..... **SPECIFICATIONS** ..... page 10-1

This lists specifications, capacities and general replacement parts, including oil, coolant, and fluids. Also included is information relating to the labels and identification plates fitted to your vehicle.

Chapter 11 ..... **SERVICE/MAINTENANCE SCHEDULE** ..... page 11-1

This shows when your vehicle requires servicing and what is done at each service. Also included are the coupons that are used when you take your vehicle to a Holden Dealer to be serviced.

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Chapter 1

Instrument Panel

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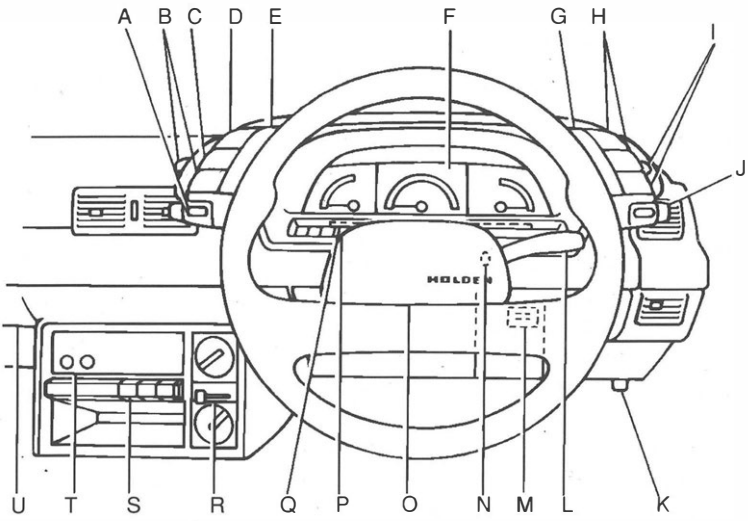
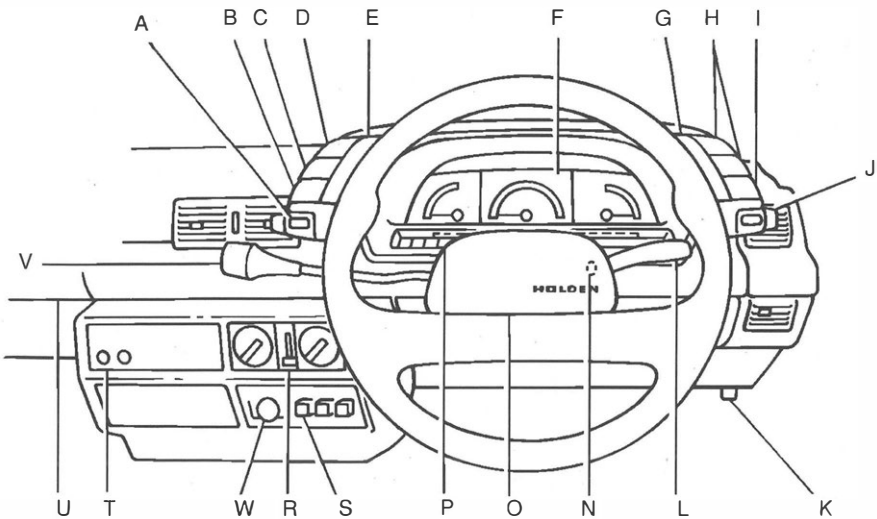
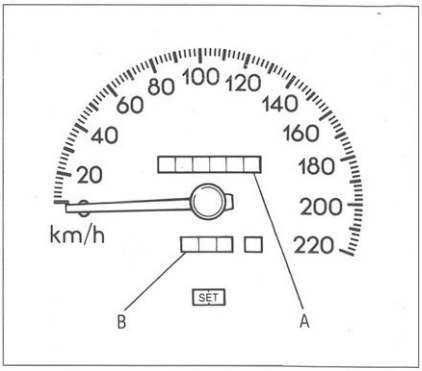




Column shift with front bench seat

SPEEDOMETER

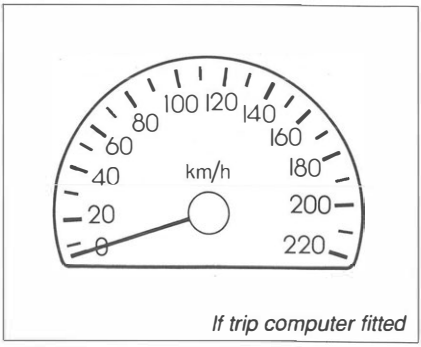
The Speedometer gauge indicates speed in kilometres per hour.



The odometer (A) records kilometres travelled since the vehicle was built.

The tripmeter (B) records kilometres travelled on a particular trip. Push the SET knob (beneath the speedometer) to reset the tripmeter reading to zero.

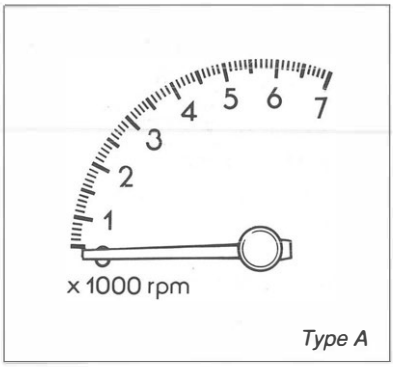
Note: If your vehicle is fitted with a trip computer, the trip meter and odometer will be incorporated in the trip computer display, refer page 1-25.



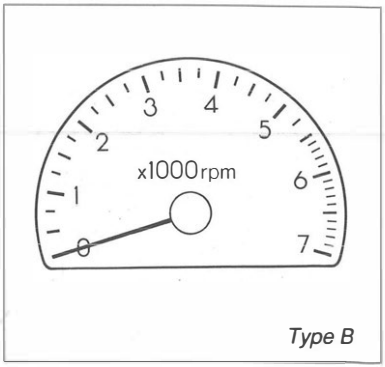
If trip computer fitted

TACHOMETER (if fitted)

The tachometer records engine speed in revolutions per minute (r.p.m.). Sustained operation in the RED zone will cause serious engine damage.



Type A

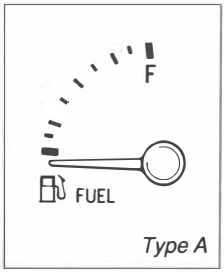


Type B

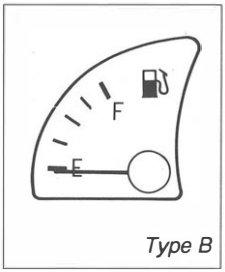
FUEL GAUGE

The fuel gauge indicates the level of fuel within the fuel tank when the ignition is switched to ON. "E" represents empty and "F" represents full.

Refer to information in Chapter 4 when refuelling.



Type A

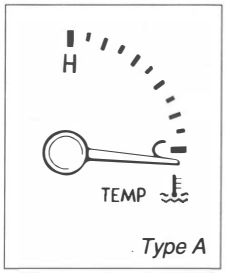


Type B

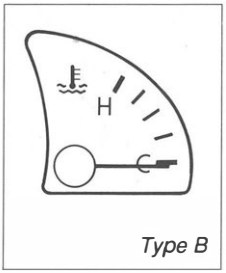
TEMPERATURE GAUGE

The temperature gauge indicates the engine coolant temperature, when the ignition is switched to ON.

Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing a caravan may cause the needle to move toward the "H". This is not dangerous. However, if the needle should move all the way to "H" and remain there for more than 30 seconds, this signals an engine overheat condition and you should stop the vehicle as soon as it is safe to do so. Refer page 5-10 for further instructions.



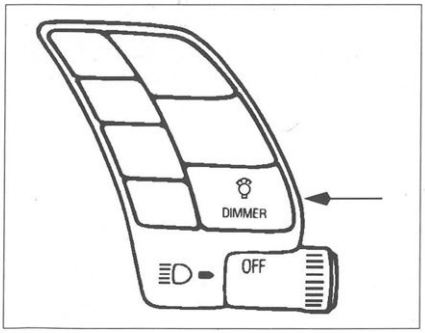
Type A



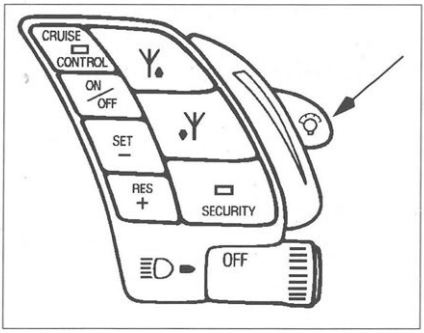
Type B

DIMMER

Gauges are illuminated when the headlights or park lights are switched on. The brightness of illumination can by adjusted by the "dimmer".

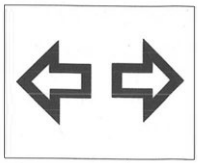


If DIMMER switch fitted: The DIMMER switch has two positions - bright and dim. Press the switch to change between the two positions.



If slide fitted: Move the dimmer slide adjustment up or down, as required.

TURN SIGNAL INDICATOR



The appropriate green arrow will continuously flash while the lever on the right side of the steering column is moved (refer page 1-12) and the ignition key is turned to ON or ACCESSORIES.

NOTE: Both arrows will flash when the Hazard Warning Flasher is switched on, refer page 1-10.

OIL PRESSURE!

To check that the bulb is working, the symbol is displayed when the ignition key is turned to ON - until the engine is started.

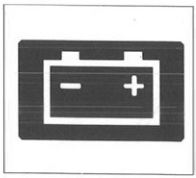
If the symbol is illuminated while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.

BRAKES!

To check that the bulb is working, the symbol is displayed when the ignition key is turned to start the engine.

If the symbol is illuminated while driving it indicates that there is something wrong with the braking system. You should immediately stop on the side of the road as carefully as possible. Do not proceed until satisfied that cautious progress is possible or that the cause of the problem has been fixed.

GENERATOR!



To check that the bulb is working, the symbol is displayed when the ignition key is turned to ON - until the engine is started.

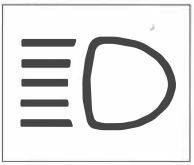
If the symbol is illuminated when the engine is running it indicates that the generator is not charging. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer.

LOW PETROL (if fitted)

To check that the warning symbol is working, the symbol will displayed for a short time when the ignition is first turned ON.

When driving, a warning chime will be heard when this symbol is first displayed - the petrol tank is approaching empty. If a standard petrol tank is fitted then approx. 8 litres of fuel is remaining; if 80 litre petrol tank fitted then approx 12 litres is remaining.

HIGH BEAM



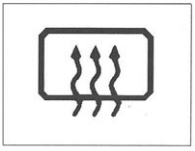
This blue symbol is displayed when the headlight high beams are in use.

PARK BRAKE

When the park brake is applied and the ignition is turned to ON the red symbol will be displayed - until the park brake is released.

IF WARNING CHIME FITTED: If you attempt to drive off without releasing the park brake, an audible warning chime will be heard. When driving, this will repeat every minute, until the park brake is released.

REAR WINDOW DEMISTER (if fitted)



This symbol is displayed when the demister is working (i.e. demister switched on and the ignition key is turned to ON).

On some models the demister will automatically switch off after 20 minutes.

CHECK ENGINE!

Your vehicle is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

To check that the warning symbol is working, the symbol is illuminated when the ignition key is turned to ON - until the engine is started.

If the symbol comes on while driving it indicates that a fault has been detected in the Engine Management System. Although the vehicle may still be driveable it is recommended you have a Holden Dealer correct the problem as soon as possible.

WARNING: Australian vehicles have a catalytic converter fitted in the exhaust system to reduce exhaust emissions. If the engine is misfiring you should reduce driving speed and should not tow a caravan or trailer until the misfiring is corrected, at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may become overheated, resulting in vehicle damage.

LIGHTS ON (if fitted)

This orange symbol is displayed to warn you that the headlights are still switched on with the ignition off, refer page 1-11.

Some models are fitted with 'automatic headlights off', refer page 1-11, in which case this symbol is not required.

OVER SPEED (if fitted)

To check that the bulb is working, the symbol is illuminated for a short time when the ignition is first turned ON.

When driving, a warning chime will be heard when this orange symbol is displayed on the instrument panel. Both the chime and the symbol are designed to remind you that you have exceeded your desired maximum speed. The speed setting can be adjusted up or down (or completely turned off) via the trip computer, refer page 1-24.

CRUISE CONTROL (if fitted)

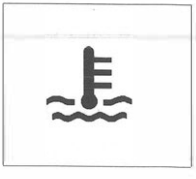
If your vehicle is fitted with a cruise control system this orange symbol will be illuminated when the system is controlling vehicle speed. Refer page 1-21 for explanation of the cruise control.

PRESS REMOTE (if fitted)

This flashing symbol is provided to remind you to turn the anti-theft system off, by pressing the remote key.

Note that you will not be able to start the engine until the remote key is pressed, refer page 2-8/2-11.

OVER TEMPERATURE! (if fitted)



To check that the warning light is working, the symbol is illuminated for a short time when the ignition is first turned ON.

If the symbol is illuminated when the engine is running it indicates that the temperature of the engine coolant is dangerously hot. You should stop the car as soon as it is safe to do so. Refer page 5-10, for further instructions. The audible warning chime is designed to bring this condition to your attention. This will be repeated every minute until the condition is rectified.

FOG LAMPS (if fitted)

This green symbol is illuminated when the ignition is turned to ON and the fog lights are in use, refer page 1-12.

TAIL/BRAKE LIGHT BULB FAILURE (if fitted)

To check that the warning light is working, the symbol is illuminated for a short time when the ignition is first turned ON.

If the symbol is illuminated while the park/head lights are on, then a bulb failure of the tail lights is indicated.

If the symbol is displayed while depressing the brake pedal, then a bulb failure of the brake lights is indicated.

If the symbol flashes for 15 seconds, then a fuse failure (of either the brakes or the park/head lights) is indicated.

POWER SHIFT (if fitted)

If your vehicle has a four cylinder export engine (L4) *and* is fitted with an automatic transmission, then this orange symbol will be displayed when driving, whenever the button on the T-bar handle is in the *out* position, refer page 3-6.

AUDIBLE WARNING (if fitted)

The audible warning feature will be heard when the following warning lights appear on the instrument panel.

- Over speed warning light

  Low petrol warning light

  Hot engine warning light

  Park brake (and the car is moving)

  Press remote (anti-theft on and engine starting attempted)

This audible warning feature is added to emphasize the above conditions. Note that the tone and frequency of the chime is varied, to allow different warnings to be identified by sound.

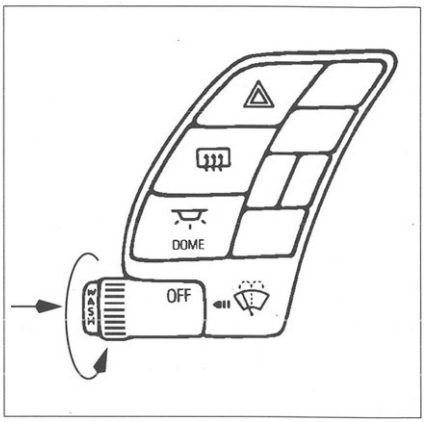
The wipers and washers are operational when the ignition is turned to either ON or ACCESSORIES.

FRONT WIPERS & WASHERS

The knob to the left of the gauges controls the windscreen wipers and washers.

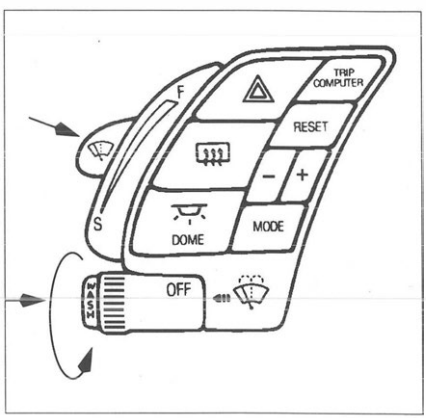
Never operate the wipers on dry glass, as this will damage the rubber. To obtain a spray of fluid, push in and hold the button on the end of the knob as long as required. This will automatically turn on the wipers for a short time, if not already operating.

Rotate the thumb lever on the knob to turn on the wipers. INT (intermittent) is used when driving in conditions such as drizzle or mist, 1 switches the wipers to low speed and 2 to high speed.



Variable intermittent (if fitted)

The speed of INT (intermittent) wipe can be varied by sliding the adjustment anywhere between S (slow) or F (fast). In addition, the INT wipe is "road speed dependant", which means that as the car speeds up, so do the wipers.

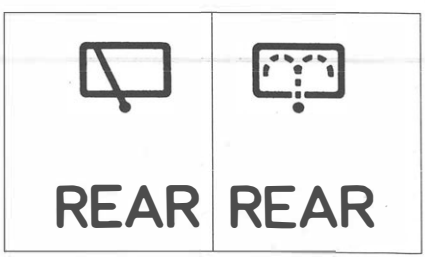


Refer page 7-8 when topping up washer fluid.

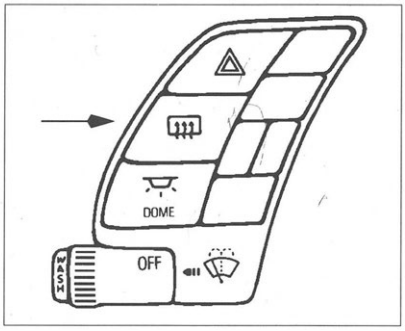
REAR WIPER & WASHER (wagon only)

The two switches (located below the radio) control the rear wiper and washer on wagon models.

Never operate the wiper on dry glass, as this will damage the rubber. To obtain a spray of fluid, press the "washer" switch as long as required. Depress the "rear wiper" switch to turn on the wiper, re-press the switch to turn the wiper off.



REAR WINDOW DEMISTER (if fitted)



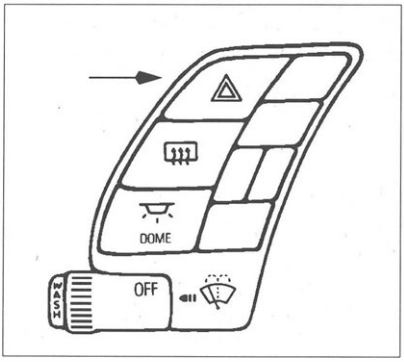
The rear window demister only operates when the ignition is turned to ON.

Press the switch to turn on the demister. A symbol on the instrument panel will illuminate, refer page 1-6. Re-press the switch to turn the demister off.

Note: To avoid unnecessary electrical consumption the demister should be switched off when the window is clear.

On some models the demister will automatically switch off after 20 minutes.

HAZARD WARNING FLASHER

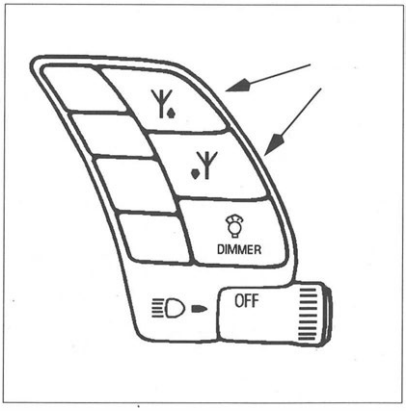


Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Turn on the hazard warning flasher by pushing the switch illustrated. This makes all four turn signals flash continuously, regardless of the ignition position. The green arrows on the instrument panel will also flash. To cancel the hazard flasher, re-press the switch.

Use of the hazard warning flashers while the vehicle is moving is prohibited by Law in some States/Countries.

ELECTRIC ANTENNA (if fitted)



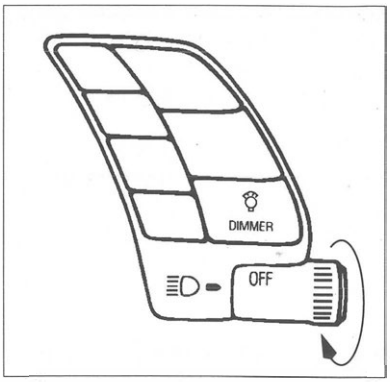
The electric antenna will not operate unless the radio unit is switched on. When the radio is turned off or the ignition is turned off, the electric antenna will (after a short delay) automatically retract. When the radio is switched on and the ignition is turned to ON or ACCESSORIES the antenna will automatically extend. On some models the antenna will extend to its last operating height.

In addition, if the antenna is the adjustable type, it can be raised or lowered by pressing the appropriate switch.

Important: The best radio reception is gained when the antenna is fully extended.

To lower non-adjustable type electric antenna (to clear obstacles such as trees), turn the radio off. Manual antenna adjustment, refer page 2-24.

LIGHT SWITCH



The park lights and head lights are controlled by the knob to the right of the gauges.

Rotating the thumb lever of the knob to the first position turns on the park, tail, rear licence and instrument panel lights. Rotating to the second position also turns on the headlights.

Automatic headlights off (if fitted)

Leaving the head/park lights on when the engine is not running will eventually flatten the battery. To prevent this, the park/head lights will temporarily switch off when the ignition has been switched from ON to OFF *and* the driver's door is opened..... the car senses that the driver has forgotten to switch off the lights. The lights will stay off until the ignition is again switched ON (or the light switch is turned to another position).

The time between the driver's door being opened and the lights automatically switching off can be adjusted. The time delay is set by:

switch park lights on

switch ignition on

hold switch for DOME light depressed

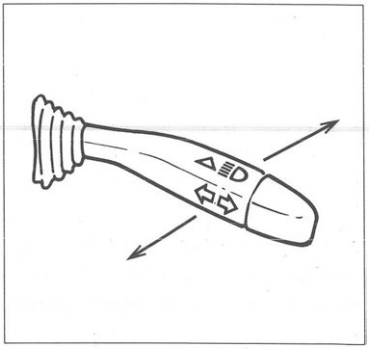
switch ignition off

open driver's door (this starts the delay period)

wait desired delay time

release switch for DOME light (park lights go out and time delay is set).

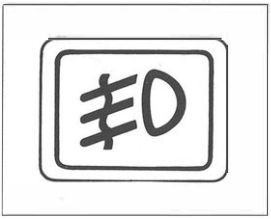
HIGH/LOW BEAM



High/low beam is controlled by the lever mounted on the right side of the steering wheel column. With the headlights on, push the lever away from you, until you feel a click, then release. The headlights will change from low to high beam. When the high beams are in use, a blue symbol on the instrument panel will be displayed.

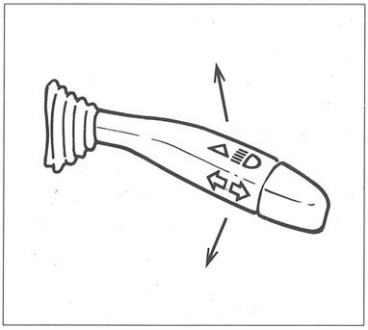
It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you; the lights will remain in high-beam as long as the lever is held.

FOG LAMPS (if fitted)



- Fog lamps are selected when the button on the switch (located near the radio) is out. Re-press the switch to turn off.
- Turning on fog lamps automatically turns off the headlights.
- Fog lamps only work when the headlight switch is turned ON.
- High beam, however will still operate if fog lamps are in use.

TURN SIGNALS

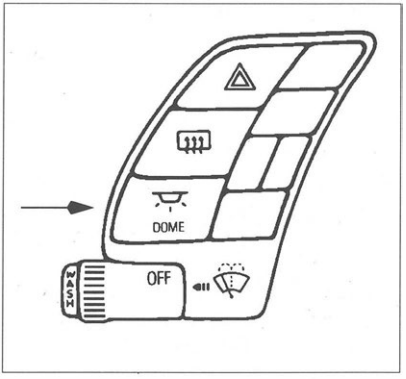


The turn signals are operated by the lever mounted on the right side of the steering wheel column. The lever is pushed up to signal a left turn, down to signal a right turn. The lever will return to the neutral position when the turn is completed.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

A green arrow on the instrument panel will flash when the lights are in operation. This is accompanied by a clicking sound.

INTERIOR LIGHT(s)



The light(s) may be turned off or on by pressing the switch illustrated.

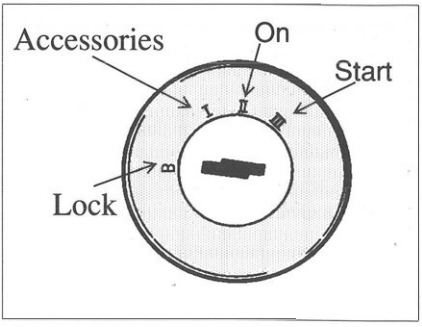
In addition, the lights will automatically come on when a door is opened and will switch off 10 seconds after all the doors are closed. Switching the ignition to ON will, however, override the time delay.

On some models pressing the switch to turn the interior light off (after shutting the doors) will turn the light off immediately. On other models, there is a wait of 10 seconds, until the light has 'timed' out.

Leaving the interior light switched on (without the engine running) will eventually flatten the battery. To prevent this, on some models, the interior lights will be automatically switched off 2 hours after the ignition is switched to OFF or LOCK.

Reading lights may individually be turned off or on, refer page 2-24.

B Lock



This is the normal parking position; accessories and engine are off. The key can only be removed from the ignition at this position. Once removed, the ignition and steering will be locked.

To release the steering lock, insert the key into the switch and turn it clockwise. If you have trouble turning the key to unlock the steering, turn the steering wheel slightly to the right or left while twisting the key clockwise.

I Accessories

The engine is off but accessories such as the radio and wipers still operate.

II On

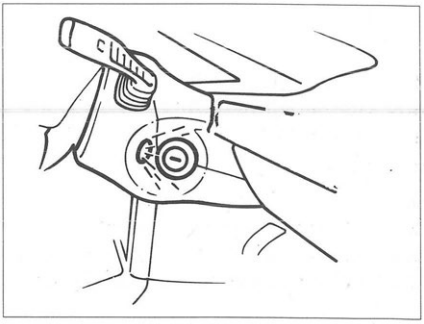
This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

III Start

This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

CAUTION: Do not turn off the engine while the vehicle is moving or there will *not* be any power assist for brakes or steering. Never remove the key while the vehicle is moving as this will lock the steering of the vehicle.

ILLUMINATION



The ignition switch, partially hidden behind the steering wheel, is illuminated (for easy key insertion) when a door is opened.

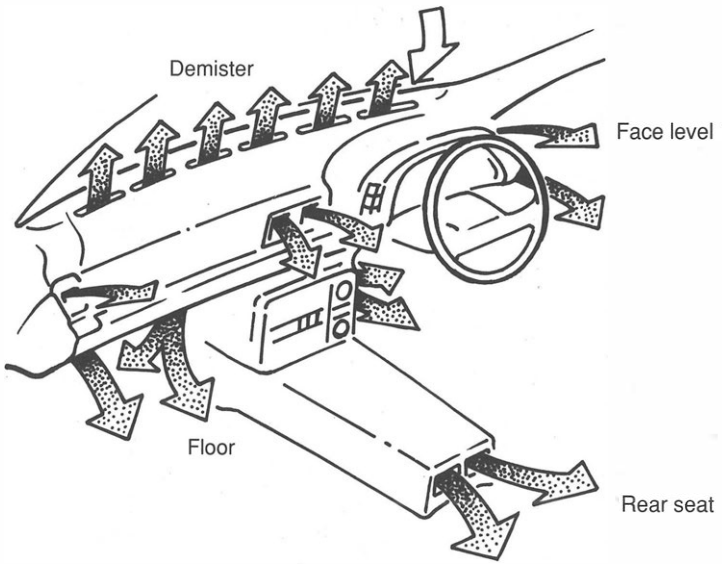
It will remain illuminated for a further 10 seconds after all doors are shut, provided the ignition is not switched on.

Note that the ignition illumination will turn on/off when the dome light is turned on/off.

The vehicle features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Outside air (except when re-circulate is selected) is drawn into the vehicle through the opening at the base of the windshield. Do not allow this opening to become clogged with leaves or snow.

OUTLETS

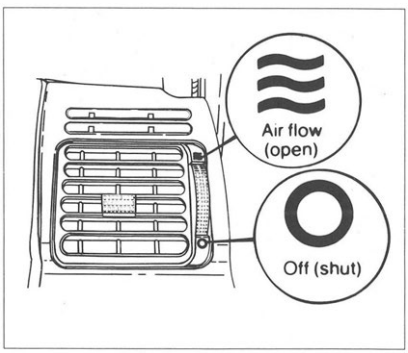
The air may be directed to four different types of outlets- *demist, face level, floor* and *rear seat* (if fitted).



The *floor* and *demister* outlets are fixed, as these direct air to the windscreen/windows or feet in the best possible way.

The six *face level* outlets (located on the instrument panel) and two *rear seat* outlets (if fitted) have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

These outlets have shut off doors which can also be used to adjust the air volume to suit individual comfort. For example, air flow at the centre vents can be reduced to enhance air flow at the rear seat or outer face vents.



MODE DIAL

Note: in all positions, a small amount of air is directed to the demist outlets.

DEMIST. Air is delivered to the *demist* outlets.

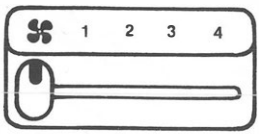
FLOOR. Air is directed to the *floor* outlets.

BI-LEVEL. Cooler air is is delivered from the face and demister outlets and warmer air from the floor outlets when the temperature lever is moved away from extreme cold or extreme hot. This position can be used for most winter driving.

FACE. Air is delivered from the six *face* level outlets and the rear seat outlets (if fitted).

RE-CIRCULATE. No outside air is admitted. Interior air is re-circulated and directed back through the six *face* level outlets. Refer operating notes on following page.

FAN SWITCH



The fan switch provides speed control of the blower fan in all Mode dial positions.

Note that if your vehicle is fitted with a front, bench seat then the fan switch will be in the vertical position.

TEMPERATURE DIAL

The temperature dial regulates the temperature of the air entering the passenger compartment in all Mode dial positions.

AIR CONDITIONING (if fitted)

Air conditioning is turned on when the button on the switch (near the radio) is out. Re-press the button to switch off and achieve lower fuel consumption. Note that the fan switch must be set to 1 or above for the air conditioning to work.

When the air conditioner is switched on and the Mode dial is turned to either Bi-level or Face, air is also delivered from the *rear seat* outlets.

The air conditioner operates more effectively when all the windows are closed.

Note: *rear seat* outlets are provided with factory fitted air conditioning to sedans and wagons. Air conditioning fitted as an accessory (after the vehicle was built) will not have rear seat outlets, unless prior agreement was made with the Dealer.

UNSEALED ROADS

When following another vehicle on dusty roads, or to prevent exhaust fumes or odours from entry into your vehicle, select the re-circulate position on the mode dial and make sure windows are closed.

When driving on un-sealed roads but where the dust is not airborne, use the *face* or *bi-level* setting of the Mode dial (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

AIR CONDITIONING (if fitted)

Hot weather For a "quick cool down" when first entering the vehicle on a hot day, switch on the air conditioner, turn the Mode dial to *re-circulate*, turn the temperature control dial to full cold and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows (the air conditioning works more effectively with the windows up).

It is recommended that when the interior cools down (approximately 10 to 20 minutes) to set the Mode dial to *face* (outside air) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when *re-circulate* is selected. This can be used in slow city traffic or when the vehicle is stationary in very hot weather. Occasionally select *face* or *bi-level* to allow outside air to enter the vehicle.

Automatic transmission If your vehicle is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N (neutral) or P (park).

Cold weather If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, turn the Mode dial to *demist* or *bi-level* and select a warm setting with the temperature control dial. This will circulate warm, dehumidified air throughout the vehicle, defogging the windows. Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Cigarette smoke If occupants are smoking, it is recommended that the "*re-circulate*" position of the Mode dial NOT be used, as residues from the tobacco smoke adhere to the air ducts and will produce stale smelling air.

Important Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter. This will lubricate the air conditioning system and prevent the seals from drying out.

Notes Occasionally a slight hissing sound may be heard for a short time when the air conditioner switches off and pressure in the system equalises. This is normal.

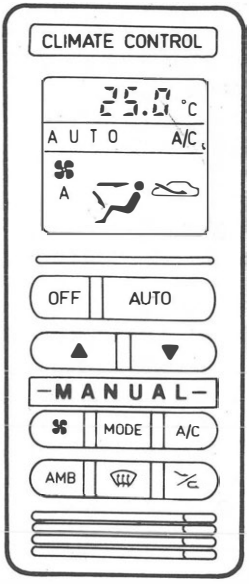
When driving at high speeds the air conditioning compressor may switch off so that full engine power is available.

The system is protected by switches that guard against abnormal loads and loss of refrigerant. The compressor may switch off temporarily. Have the system checked by a Holden Dealer if this occurs.

OZONE Your air conditioning system uses 'R12' refrigerant which, if leaked into the atmosphere, reduces ozone. When alternative refrigerants become available R12 will be phased out of production.

If your air conditioning system requires recharging (when R12 is no longer available) modifications to your vehicle may be necessary.

Located to the right of the radio is the Climate Control. It maintains the interior of your car at your desired temperature.



AUTOMATIC OPERATION

- Start the engine.
- Ensure automatic is selected (AUTO displayed on readout). If necessary, press AUTO button.
- Use the red (warmer) or blue (cooler) arrows to adjust the temperature readout. An initial setting between 25°C and 27°C is recommended.
- The readout graphics will show the changes the system is making.
- Allow system to stabilize for a few minutes.
- You may need to adjust the angle of the air vents to your personal requirements.

Once the system has stabilized, and you wish to adjust the setting, it is recommended that the adjustment be made one tap at a time (each tap is 0·5°C) until you are comfortable. Your comfort setting will depend on clothing, your acclimatization, and the angle at which you have directed the vents. The system may be set anywhere between 18°C (coolest) and 32°C (warmest), but will default to 25°C if the battery is disconnected.

The setting will not change between the ignition being turned OFF or ON. Therefore, you need only change the setting when you wish to alter your comfort level.

In automatic operation the system will always respond quickly to cooling/heating requirements. It is not necessary to set a cooler/hotter temperature than required to ensure fast cooling/heating.

To efficiently maintain your desired comfort level, the system should be left on automatic operation, as the system can then:

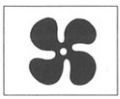
- turn air conditioning on and off
- vary the temperature of the air entering the cabin
- re-circulate interior air *or* take air in from outside the car
- vary fan speed
- select the vents through which the air is delivered

For example, on a cold morning, warm air will be directed to the feet outlets and a small amount of air to demist. Then, as the car warms up, the system will change to bi-level and the fan will slow down.

Normally, there should be no need to use the buttons under the word MANUAL. However, should you wish to modify the system operation to suit your preference the automatic features can be individually overridden (e.g. if you want low fan speed, or perhaps permanent floor level).

Using any of these buttons (except for AMB) will take the system off automatic operation. The word MANUAL will appear on the readout to remind the driver that the system is not on full automatic control. Press the AUTO button to reset the system to automatic.

DEMIST The climate control system is not capable of determining demist requirements. Therefore, tap this button if air flow is required for demisting the windscreen and side windows. It is not advisable to select re-circulation when demisting. Note that for best performance, the air conditioner will operate when demist is selected.



FAN SPEED Tap this button to switch the fan between 3 speeds. Note that more variations of fan speeds are available when the system is in AUTO.

MODE Tap this button to switch between *face, face and foot,* or *foot* modes.

Face
Air is directed from the face level vents.

Face and foot
Cooler air is directed to the face and warmer air is directed to the feet.

Foot
Air is directed to the feet.

AIR CONDITIONING Tap this button to switch air conditioning on or off. To conserve fuel, you may wish to switch off the air conditioning in cold weather, when the air does not require cooling. The system will still maintain automatic control of all other functions but will not turn the air conditioning on should the cabin temperature be too high.

The air conditioner should, however, be switched on for at least 5 to 10 minutes, each week. This will lubricate the air conditioning system and prevent the seals from drying out.

OUTSIDE/RE-CIRCULATION Tapping this button will change the air intake from outside air to re-circulated air. Re-circulate *re uses* interior air and is therefore not recommended for long periods of time.

If occupants are smoking, it is recommended that the *re-circulate* position NOT be used, as residues from the tobacco smoke adhere to the air ducts and will produce stale smelling air.

AMBIENT TEMPERATURE When pressed, the temperature outside of the car is shown on the readout. This button does not take the system out of automatic mode. After 5 seconds, the readout will revert to the original display.

NOTES

Quick cool down: To aid the climate control when first entering the car on a hot day, open the windows to allow the hot air to escape. After a minute or two, close the windows - the system works more effectively with the windows up.

Automatic operation: Manual override of any controls can impede the efficiency of the system to achieve the set temperature. This system is designed to operate with minimum manual adjustment to achieve and maintain the selected comfort. It is also important to allow the system to stabilize before changes in comfort settings are made.

Initial heat: Remember, the heater uses heat generated in the engine. Therefore hot air is not available until the engine starts to warm up. If the ambient (outside) temperature is below 18°C and heating is required the fan will not automatically switch on - until the engine starts to warm up and hot air is available.

OFF button: To switch the climate control completely off, press the switch beneath the read out display, marked OFF. The fan and air conditioning will be switched off and the system will only admit flow through, outside air. The flow through air can also be turned off/on by pressing the RE-CIRCULATION button. Remember, re-circulation is not recommended for long periods of time. Press the AUTO button to turn the climate control system back on.

Demist "bleed": Note that there will be a small air flow from the demist vents in all modes.

Unsealed roads (prevention of dust entry): When following another car on unsealed roads (and the dust is airborne) it is recommended that re-circulation be selected. However, if the dust is not airborne it is recommended that the setting be on *outside* air (re-circulation off) and that the fan be on a high speed. This will build up positive air pressure and so prevent any dust entry. Ensure in both cases that all windows are closed.

OZONE Your air conditioning system uses 'R12' refrigerant which, if leaked into the atmosphere, reduces ozone. When alternative refrigerants become available R12 will be phased out of production.

If your air conditioning system requires recharging (when R12 is no longer available) modifications to your vehicle may be necessary.

Engine idling: If your car is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N (neutral) or P (park) to reduce the load on the engine cooling system.

Vents: The six *face level* vents (located on the instrument panel) and two *rear seat* vents (located at the rear of the console) are adjustable. Use the toggle in the centre to direct air delivery up/down and left/right.

These vents have shut off doors which can also be used to adjust the air volume to suit individual comfort. The rear vents may be shut off. However, it is recommended that the front vents not be shut completely off, as this will impede climate control efficiency.

The *floor* and *demister* outlets are fixed, as these direct air to the windscreen/windows or feet in the best possible way.

HORN

The horn is activated when the pad(s) in the steering wheel is pressed, regardless of the ignition key position.

GLOVEBOX

A glovebox is provided on the passenger side of the instrument panel. Some models have an additional glovebox on the driver's side of the instrument panel, near the ignition lock.

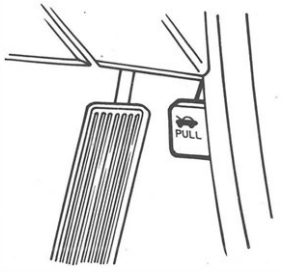
To lock, insert the key, turn clockwise and then withdraw; to unlock, insert the key and rotate anti-clockwise.

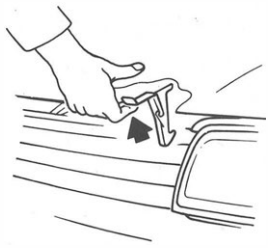
To open, squeeze the two slides of the catch together and pull towards you. To close, push lid firmly back into place. This will engage the catch.

BONNET RELEASE

From inside the vehicle, pull the lever, beneath the right hand side of the instrument panel, towards you. This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the centre of the bonnet and move safety catch upwards. Hold in this position and raise the bonnet.

Note that after you have partially lifted the bonnet, gas struts will automatically take over, to lift and hold the bonnet in the fully open position. For closing, simply pull the bonnet down and push firmly back into place.





RADIO/CASSETTE/CLOCK/ TELEPHONE (if fitted)

Refer to the operating instruction supplement in your glovebox for all information relating to the operation of your radio/cassette/clock and telephone (if fitted).

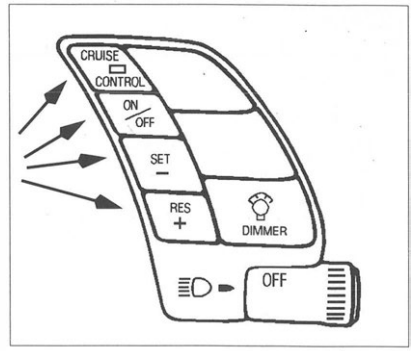
P. I.N. (if fitted) FOR RADIO

If the power to the radio or the battery is disconnected, the radio is totally inoperative until the P.I.N. (Personal Identification Number) is entered into the radio.

Note: If service operations require disconnecting the battery (e.g. work to the electrical system of the car) you may wish to provide the servicing dealer with your P.I.N. so that he can re-activate the radio for you. Otherwise, you will have to input the P.I.N. yourself....keep the P.I.N. in a safe but accessible place, perhaps with your registration papers. DO NOT keep the P.I.N. in your car, as this safety feature is provided as a theft deterrent.

For details of how to enter your P.I.N. refer to card supplied with your car showing radio P.I.N. security number and entry instructions.

If P.I.N. number is lost, contact your Holden Dealer. He will require proof of ownership and the Vehicle Identification Number of your car. There may be a nominal charge for this service.



The cruise control enables you to select and maintain, or adjust a constant travelling speed, provided it is within engine limitations and over 40 km/h approx.

Press the switch marked "ON/OFF" and a green light on the "CRUISE CONTROL" pad will glow, indicating the system is activated and ready for use. An orange CRS symbol on the instrument panel will illuminate when the Cruise Control is engaged and is maintaining vehicle speed.

TO SET INITIAL SPEED you may either:

1) use the accelerator pedal to gain your desired speed, press the SET/- button once and take your foot off the accelerator pedal.

or

2) once above 40 km/h, press and hold down the RES/+ button while taking your foot from the accelerator pedal. Your speed will gradually increase until you release the RES/+ button.

TO ADJUST YOUR INITIAL SPEED you may either:

1) press and hold the SET/- button until the vehicle coasts down to the desired speed, then release

or

2) press and hold the RES/+ button until the vehicle accelerates up to the desired speed.

3) minor changes in speed (1.6 km/h) can be achieved by momentarily tapping the appropriate button: RES/+ to increase, SET/- to decrease speed.

NOTE - you cannot "tap" under 40 km/h approx.

- you may only "tap up" to 16 km/h above vehicle speed.

TO RELEASE THE CRUISE CONTROL you may either:

1) press the ON/OFF switch, which will deactivate the whole system and wipe clear any speed memory.

2) touch the brake pedal, which will release the cruise control but retain the speed in its memory so that you only have to "tap" the RES/+ button to regain that speed - provided you are travelling over 40 km/h at the time. Holding down the RES/+ button for longer than one second will clear the memory and set the speed at what you are travelling.

3) press the RES/+ and SET/- buttons at the same time, which will also retain memory speed.

WARNING

DO NOT USE THE CRUISE CONTROL WHEN ROAD OR DRIVING CONDITIONS COULD REQUIRE VARYING SPEEDS. A CONSTANT SPEED MAY NOT BE PRACTICAL IN HEAVY OR VARYING TRAFFIC, OR ON WINDING, SLIPPERY OR ROUGH ROADS.

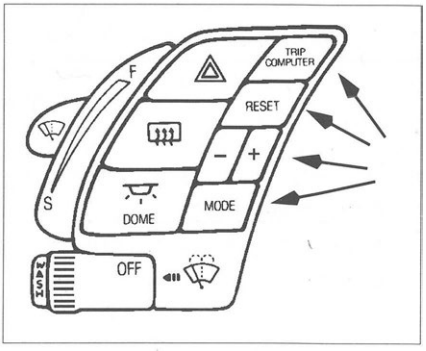
REMEMBER THAT TAKING YOUR FOOT OFF THE ACCELERATOR WHEN THE CRUISE CONTROL IS ENGAGED WILL NOT REDUCE VEHICLE SPEED. TO DISENGAGE THE SYSTEM YOU MUST TOUCH THE BRAKE PEDAL, DEPRESS THE *ON/OFF* BUTTON, OR DEPRESS THE *RES/+* AND *SET/-* BUTTONS TOGETHER.

WHEN GOING UP OR DOWN HILLS, (PARTICULARLY WHEN TOWING) IT IS POSSIBLE FOR THE VEHICLE TO GAIN OR LOSE SPEED - EVEN THOUGH THE CRUISE CONTROL IS OPERATING. IF THIS HAPPENS, YOU MAY NEED TO DISENGAGE THE SYSTEM AND RESUME MANUAL SPEED CONTROL.

When the ignition is turned to ON, the trip computer will display the same group of displays as when the ignition was last turned OFF.

The computer can be reset at any time, however, the following is considered normal practice:

- at each tank refill. The computer will then give you results that are averaged out over each tank full of fuel.
- at beginning of a trip. This might involve many tank refills and results will then be computed over the total journey.



To reset the computer, hold down the RESET button, and press the MODE button. This will reset all functions, with the exception of DISTANCE TO EMPTY, OVER SPEED WARNING setting and the ODOMETER.

NOTE: If the wrong buttons have been accidently pressed, causing the display to show other than the normal readings, turn the ignition OFF, then ON again (when vehicle is stationary).

There are three groups of displays. Tap the mode button to change between the three groups.

TRIP TIME 13·0

The TRIP TIME shows ignition "on" time since the trip computer was last reset.

FUEL USED 43·88 L

The FUEL USED shows the total fuel used (in litres) since the computer was reset.

DIST TRAV 265·5 KM

The DISTANCE TRAVELLED, also known as the TRIP METER, shows the distance travelled in kilometres since the computer was reset.

If the RESET button is tapped twice in succession (when the DISTANCE TRAVELLED is displayed) the DISTANCE TRAVELLED will be reset to zero - without resetting the other readings.

PRESS MODE SWITCH

The orange over speed warning symbol (SPD) on the instrument panel will illuminate when vehicle speed exceeds the speed set on the trip computer.

The over speed warning is alternatively turned off or on by tapping the RESET button *twice* in succession when OVER SPEED is displayed.

To adjust the setting ensure OVER SPEED is turned on and that it is displayed on the trip computer. Then press either the + or - buttons or increase or decrease speed setting. Display is adjustable in 5 km/h units.

Owners must be aware that a manufacturing tolerance is normal between the overspeed warning and the speedometer gauge reading. However, this tolerance will not exceed 5 km/h.

The INSTANTANEOUS FUEL shows litres per 100 km.

This function is updated every 2 minutes. No computer can predict the future, so the DISTANCE TO EMPTY function is an estimate on previously obtained information. For this reason, as conditions become more suited to economical driving the DISTANCE TO EMPTY can actually increase, for example, from city to highway driving.

The DISTANCE TO EMPTY is calculated from both fuel usage and the amount of fuel remaining in the tank. Because of movement of fuel in the tank while the car is mobile, the readings are heavily damped and average over a long time - approx 20 minutes.

Therefore, if less than 20 litres approx of fuel is added, this will register as fuel surge and the DISTANCE TO EMPTY will not immediately increase. However, when adding more than approx 20 litres, the computer will indicate a higher DISTANCE TO EMPTY immediately the ignition is again turned to ON.

PRESS MODE SWITCH

The AVERAGE SPEED shows average speed since the computer was reset and only calculates this average speed whilst the ignition is ON. The reading is updated every minute.

The AVERAGE FUEL CONSUMPTION shows fuel used since the computer was last reset and reads in litres per 100 km. The display is updated every minute.

After resetting the computer some large numbers may initially be shown, due to the short distance travelled and the high fuel consumption during acceleration.

The ODOMETER records kilometers travelled since the car was built.

PRESS MODE SWITCH

CALIBRATION NUMBERS

The trip computer uses in its calculations three separate calibration numbers - fuel flow, fuel tank and distance. These figures are pre-set for the standard car, and do not have to be adjusted. However each car does vary due to tyre size, tolerances etc., and therefore the facility is provided to adjust these figures for greater accuracy. The procedures for each calibration number is as follows.

Note that altering the distance calibration number does not affect the odometer.

Distance calibration number

Press the MODE button until the DISTANCE TRAVELLED is displayed.

- Line the car against a known marker, e.g., line the front wheel of the car with a highway kilometer (shield) post.
- Press + and - buttons simultaneously - the display will go to zero.
- Drive off and display will increase. Stop the car exactly 10 km from the starting point, e.g., front wheel in line with highway kilometre (shield) post, 10 km from the original post.

- Press the - button. This will complete the distance calibration, enter the displayed calibration number into the computer memory and return the display to the DISTANCE TRAVELLED function.

NOTE: - This calibration does not reset other functions back to zero
- The calibration number will return to 625 if the new figure is more than 752 or less than 497.

The Calibration Number can be shown at any time by holding the RESET button for longer than 3 seconds when the DISTANCE TRAVELLED is displayed, and can be manually adjusted by pressing + or - buttons while the Calibration Number is displayed.

Fuel flow calibration number

The preset figure is 625. If you wish to adjust this, first reset the trip computer. Then for at least five consecutive fuel fills record the total litres added, as appears on the Service Station Fuel Pump. Note also the figure on the TOTAL FUEL USED function, then calculate on a desk calculator.

$$\text{cal. (new)} = \text{cal. (old)} \times \frac{\text{FUEL USED (trip computer)}}{\text{actual (service station pump)}}$$

To adjust the Fuel Flow Calibration Number:

- Press the MODE button until the INSTANTANEOUS FUEL CONSUMPTION is displayed.
- Hold the RESET button for longer than 3 seconds to show the Calibration Number, and whilst held press the + or - buttons to adjust the number.
- Release the RESET button. This will enter the new Calibration Number into the memory and return the display to the INSTANTANEOUS FUEL CONSUMPTION display.

Fuel tank calibration number

If the car has run very low on fuel or completely run out of fuel:

- Park the car on level ground.
- Press the MODE button until the AVERAGE FUEL CONSUMPTION is displayed.
- Hold the RESET button to display both the computer's reading of litres remaining in the fuel tank and the fuel tank calibration number.
- Whilst holding the RESET button, use the + or - buttons to adjust the fuel tank contents to read zero. The fuel tank calibration number will simultaneously be adjusted.
- Release the RESET button. This will enter the new calibration number into the computer memory and return the display to the AVERAGE FUEL CONSUMPTION display.

NOTE: The owner may wish to use this feature to deliberately program a fuel reserve into the trip computer. The preset figure is 0.

Chapter 2

Know your Vehicle

Page

2-2 Keys
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2-21 Child restraints
2-22 Cigarette lighter & ashtrays
2-23 Park brake
2-23 Footrest
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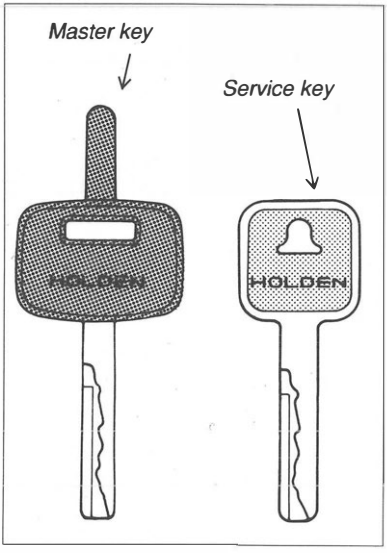
2-24 Manual antenna
2-24 Assist grips
2-24 Reading lights
2-24 Tonneau cover

Your vehicle is fitted with a two key locking system. This provides security for personal valuables when parking in car parks where you are asked *not* to lock your vehicle.



The **master key** (plastic head) is kept by the driver, as this operates *all* locks on the vehicle. The **service key** (metal head) is left with the attendant, as it only operates the ignition and door locks. This enables the vehicle to be moved if required but will not open the glovebox or boot. However, remember not to leave valuables in the boot, as access can be gained via the fold down section of the rear seat.

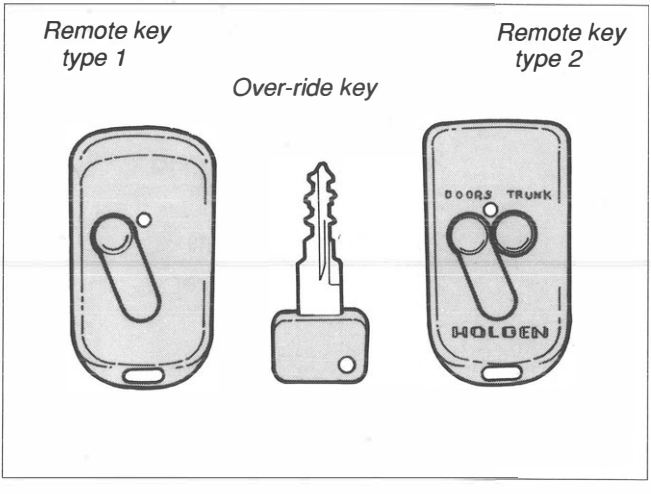
The key code number appears on a tag which will either be attached to the key or inside the glovebox.

Please remove the tag and keep in a safe place. Then, if your key is lost, a replacement can be ordered through any Holden Dealer by quoting the key code number on the tag, and providing proof of ownership. Because the keys are *profile cut*, special key cutting processes are required and replacements will not be available "off the shelf".

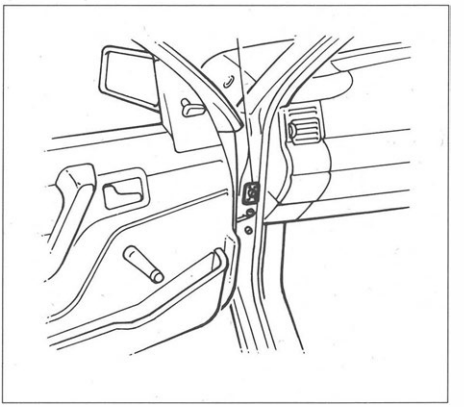
If your car has an additional glovebox on the driver's side of the car then, for your safety, please note that if additional keys are cut, the special clasp (the same as supplied with the original keys) must be purchased from your Holden Dealer.

THEFT DETERRENT KEYS (if fitted)

If your car is fitted with a theft deterrent system 4 additional keys will also be supplied - 2 remote keys (either type 1 or type 2) and 2 over-ride keys. Please record numbers of all keys.



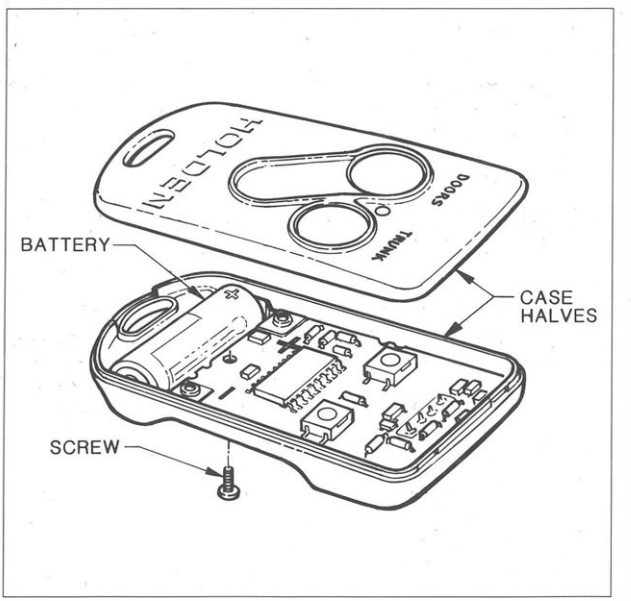
The over-ride switch is located near the hinge for the passenger's door, visible when the door is open.



Turning this switch anti-clockwise (with the over-ride key) turns off all functions of the theft deterrent system. Ideally, the switch should be left in the ON position at all times.

The remote key is powered by a standard 12V Zinc-Carbon Supercell battery, model GP23 or equivalent (National RV08, Eveready Energizer A23). With normal use this should last between 6 and 9 months. A flat battery should then be replaced. This will be checked for you when your car is serviced at your Holden Dealer. **Remember that you must also leave the remote key with the car (when being serviced) in order for the engine to be started (or switch theft deterrent system off with the over-ride key).**

Batteries can be obtained from your Dealer, or shops stocking electronic cigarette lighter batteries. Undo the screw(s) on the underside of the case and prise the two halves apart. Insert a new battery by tilting (-) end in first, taking care that it corresponds to the (-) mark on the case.



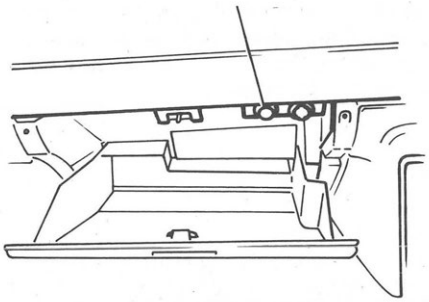
The remote key can be replaced. In the event of loss or damage, a replacement can be ordered from a Holden Dealer, who will require proof of ownership.

To unlock, turn the master key clockwise. The boot opens automatically. The boot re-locks automatically when pushed shut.

BUTTON RELEASE (if fitted)

Your car may be fitted with a button release system. To open the boot, push the button inside the (passenger's side) glovebox.

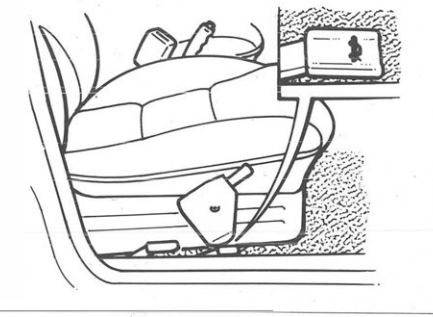
Boot release button inside glovebox



LEVER RELEASE (if fitted)

Alternatively, some models may have a boot release *lever*. This will be located on the floor, to the right of the driver's seat. Pull the lever up to release the boot.

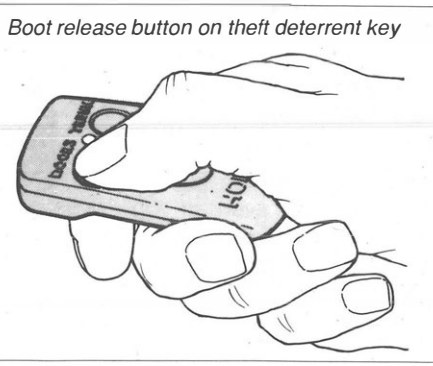
Boot release lever beside driver's seat



REMOTE KEY RELEASE (if fitted)

The boot may be opened by pressing (for more than 0.5 seconds) the button marked *TRUNK* on the remote key for the theft deterrent system, provided you are not travelling over 5 km/h.

Boot release button on theft deterrent key



WAGON TAILGATE

CAUTION: To prevent entry of dangerous exhaust fumes into the passenger compartment, the boot or tailgate should be closed when the engine is running. However, if it is necessary to leave the boot or tailgate open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up, switch heater controls to "fresh" and set fan to highest speed.

The tailgate is locked when the doors are locked, and unlocked when the doors are unlocked.

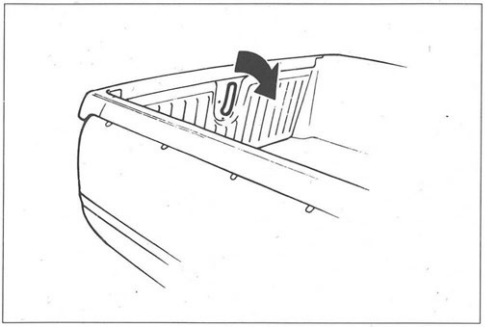
To open: When unlocked, push the tailgate lock button. Note that after partly opening the tailgate, gas struts will automatically take over to lift and hold the tailgate in the fully open position.

You may still unlock the tailgate with the master key, but you cannot then remove the key while it is unlocked - you must turn the key back to the upright (lock) position in order to withdraw the key. This ensures that the tailgate will be locked when the doors are locked.

UTILITY ENDGATE

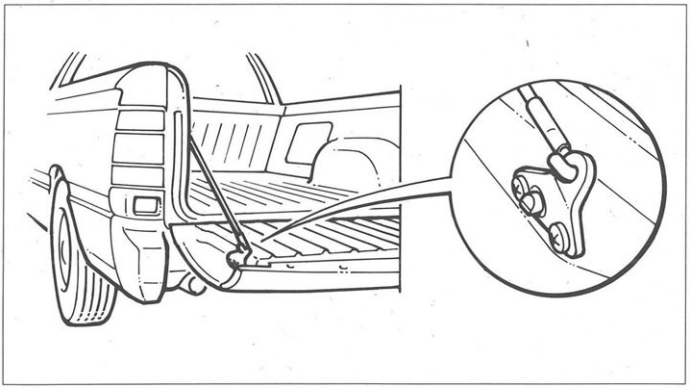
To lower: Reach inside, at the middle of the endgate. Move the lever towards the passenger side of the vehicle and lower the endgate to the horizontal position.

To close: Lift up the endgate and push firmly back into place.



The endgate support chain can be disconnected, if required.

However, when re-connecting the hooks of the support chain to the endgate ensure that each hook is pointing outwards, as shown.

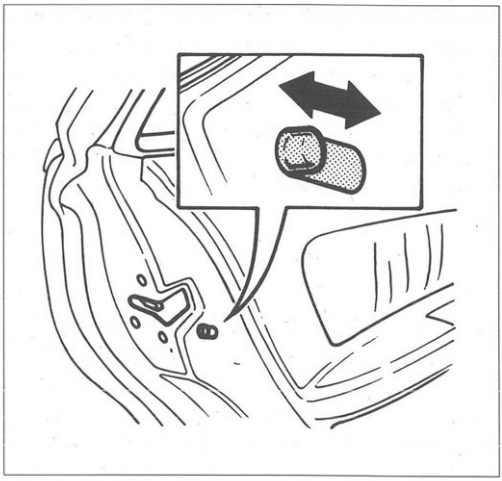


REAR "CHILD PROOF" DOOR LOCKS

"Child safety locking" helps prevent rear doors from being accidently opened by small children in the car.

When the lever is in the lock position (to the front of the car) the rear door cannot be opened from the inside. It can be opened only from the outside.

CAUTION: For safety, you should check that the lock is operating correctly (after setting) by trying to open the door from *inside* the car.



MANUAL DOOR LOCKS

The red section of interior door locks is an "unlock" reminder. Doors are locked when the lock knob is down and the red section no longer visible.

Passenger doors may be locked behind you by depressing the lock knob when the door is open, then shutting the door firmly. It is not necessary to hold the handle up when shutting.

The driver's lock knob, however, cannot be depressed when the door is open, thus preventing the driver from locking the keys in the car.

Both front doors can be locked or unlocked from outside the vehicle with the master key or service key. Turn the key towards the front of the vehicle to lock, towards the rear of the vehicle to unlock.

WHEN LEAVING THE VEHICLE, REMEMBER THAT THE DRIVER'S DOOR CAN BE LOCKED ONLY BY USING A KEY, EITHER THE IGNTION KEY OR THE REMOTE KEY. IT *CAN NOT* BE LOCKED VIA PRESSING DOWN THE LOCK KNOB AND SHUTTING THE DOOR.

ELECTRIC (if fitted), includes wagon tailgate with central locking

The red section of interior door locks is an "unlock" reminder. Doors are locked when the lock knob is down and the red section no longer visible.

All passenger doors may be unlocked or locked individually. However, when the DRIVER'S lock knob is operated all the doors will simultaneously lock or unlock. The front, passenger lock knob also unlocks all doors when pulled up.

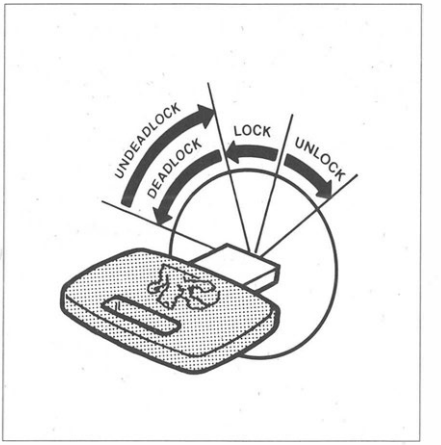
Each passenger door may be locked behind you by depressing the lock knob when the door is open, then shutting the door firmly. It is not necessary to hold the handle up when shutting. The driver's lock knob, however, cannot be depressed when the door is open, thus preventing the driver from being accidently locked out.

All doors can be locked from outside the car by using the master or service key in the front door locks. Turn the key towards the rear of the car to lock all doors, towards the front of the car to unlock.

DEAD-LOCK (if fitted)

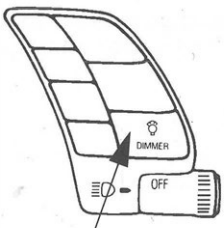
LOCKING THE DRIVER'S DOOR WITH A KEY NOT ONLY LOCKS ALL THE DOORS, BUT ALLOWS SETTING THE "DEAD-LOCK" PROTECTION.

THIS IS SET BY TURNING THE KEY AN ADDITIONAL 60° IN THE LOCK BARREL (TOWARDS THE REAR OF THE CAR). THIS ELECTRONICALLY JAMS ALL THE ELECTRIC LOCK MECHANISMS SO THAT NO DOOR CAN BE OPENED - EVEN IF ENTRY IS GAINED BY BREAKING GLASS.

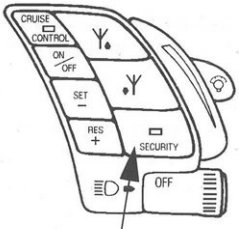


CAUTION: Do not use dead-lock if there are people in the car. The doors cannot be unlocked from inside.

The following two pages of information apply to the Type 1 theft deterrent system; the Type 2 theft deterrent system is described on page 2-10. The different types of systems can be identified by the switch on the right hand side of the instruments. Type 1 has a switch marked 'DIMMER', Type 2 has a switch marked 'SECURITY'.



TYPE 1



TYPE 2

TYPE 1 THEFT DETERRENT SYSTEM

The theft deterrent system protects your car by disabling the engine.

This will happen a) when you press the remote key, refer page 2-2.

or

b) automatically, 3 minutes after switching off the ignition.

Either way, when the engine has been disconnected the red light near the radio will start flashing.

In order to re-connect the engine, so that it can be started, **you must press the remote key!**

With all theft deterrent instructions, the over-ride switch (refer page 2-3) *must* be switched to ON (fully clockwise) - or the system will not work at all. Also remember that the remote key will not work if the battery inside it is flat, refer page 2-3 for checking and replacing the battery.

When leaving the car

first - close all windows
- remove the ignition key
- utilities only: lock all doors

then - press remote key, within 4 meters of the car

This will disconnect the engine and, for sedans and wagons, will lock all doors. Note that the red light near the radio will begin to flash, indicating that the theft deterrent system is turned on.

For additional protection when leaving your sedan or wagon, you may set the dead-lock, using the ignition key as described on page 2-7. When set, no door can be opened - even if entry is gained by breaking glass.

Therefore, do not use *"dead-lock"* if there are people in the car as the doors cannot be unlocked from inside.

Using the deadlock feature does not set the alarm system. They are independent systems and must be activated individually - the deadlock by turning the ignition key in the driver's door lock; the alarm system by pressing the remote key.

To switch off theft deterrent system

Press the remote key. This will re-connect the engine so that it can be started.

Automatic set

The theft deterrent system will automatically disconnect the engine - without you using the remote key. This happens after the ignition key has been turned to OFF. After approximately three minutes the theft deterrent system will disconnect your car's engine. Note that the red light (near the radio) will start flashing when this has happened. You now cannot start the engine, until you press the remote key!

If you do not press the remote key and you turn the ignition key on, the warning buzzer and PRESS REMOTE warning light are designed to alert you that action is required.

You must press the remote key!

If theft deterrent is not required, turn the over-ride switch anti-clockwise with the over-ride key. However, this will completely turn off the theft deterrent system. It is recommended that the theft deterrent system is left ON to protect your car against theft.

Notes

- If the engine cranks over but fails to start, first check that the theft deterrent system is not turned on (red light near radio is not flashing and/or PRESS REMOTE light on). If starting still fails, turn the over-ride key anti-clockwise and try again before calling service personnel. If the engine starts, after using the over-ride key, drive to your Holden Dealer and have the system checked.

- The remote key will not disconnect the engine when the ignition is turned ON.

- In the event of battery failure, loss or damage of the remote key, you should use the over-ride key to switch the system on or off.

  example: If returning to an armed car without the remote key, open the door, then switch off the theft deterrent system with the over-ride key. The engine can then be started.

  Then, when leaving the car, switch the system on with the over-ride key. After 3 minutes the engine will be disconnected.

The following pages of information apply to the Type 2 theft deterrent system; the Type 1 theft deterrent system is described on page 2-8. The difference between the two systems is illustrated on page 2-8.

Type 2 theft deterrent features

- disconnection of ignition system
- remote lock/unlock of electric doors
- theft alarm with "on/off" indicator light (labelled *SECURITY)*
- automatic, partial set (except for 4 cylinder export engine)
- remote opening of boot

With all following instructions regarding the theft deterrent system, the over-ride switch (refer page 2-3) *must* be switched to ON (fully clockwise) - or the system will not work at all. When the theft deterrent system is switched on a red light labelled *SECURITY*) will flash. Also remember that the remote key will not work if the battery inside it is flat.

When leaving the car

- close all windows
- remove the ignition key
- close all doors
- press DOORS on remote key, within 4 meters of the car

This will lock all the doors, immediately retract the antenna, deactivate the electric windows, immediately switch off the dome lamp, disconnect the ignition system and set the alarm.

The turn signal lights will flash once to confirm that the system has been "set".

Note that before pressing the *DOORS* button on the remote key the driver's door must be closed and the ignition turned completely off.

The alarm is triggered when the boot, bonnet or doors are opened, a 'hot-wire' attempted, or the ignition has been turned to ON or ACCESSORIES..... a loud, pulsing alarm will sound, the interior light will flash and all turn signals will flash. To cancel, press the *DOORS* button on the remote key. Or, allow the alarm to time out and reset itself - to guard against further break-in attempts.

For additional protection when leaving your car, you may set the dead-lock, using the ignition key as described on page 2-7. When set, no door can be opened - even if entry is gained by breaking glass.

Therefore, do not use *"dead-lock"* if there are people in the car as the doors cannot be unlocked from inside.

Using the deadlock feature does not set the alarm system. They are independent systems and must be activated individually - the deadlock by turning the ignition key in the driver's door lock; the alarm system by pressing the remote key.

TO SWITCH OFF THEFT DETERRENT SYSTEM

Press the *DOORS* button on the remote key. This will unlock the doors, turn off the alarm and re-connect the ignition system. Note that the turn signals on your car will flash when this is happening. They should flash twice. If they flash three times an attempted break in has occurred whilst the car was armed.

If you wish to find out what set the alarm off, carefully watch the *SECURITY* light.

2 flash~pause~2 flash: bonnet
3 flash~pause~3 flash: boot
4 flash~pause~4 flash: passenger door (either front or rear)
5 flash~pause~5 flash: driver's door
6 flash~pasue~6 flash: ignition was switched to ON or hot wire was attempted
7 flash~pause~7 flash: accessories was switched ON

To cancel the flashing code, turn the ignition key to ON, then OFF again.

AUTOMATIC, PARTIAL SET (except 4 cylinder export engine)

The theft deterrent system will partially set itself - without you using the remote key. This happens after the ignition key has been turned to OFF *and* the driver's door has been opened and closed. The theft deterrent system senses that the driver is leaving the car.

Approximately three minutes after the last door has been closed, the theft deterrent system will disconnect your car's ignition. Note that the red *SECURITY* light will start flashing when this has happened. You now cannot start the engine, **until you press the button labelled *DOORS*** on the remote key.

If you **do not** press the *DOORS* button:

- and you open the driver's door to get back into the car, the *PRESS REMOTE* warning light on the instrument panel will flash.
- If you ignore this warning light (and still do not press the *DOORS* button) and you try to start the engine, the audible chime will also be heard.
- Even after both the *PRESS REMOTE* warning light and the chime go out, the engine will still not start.

You must press the *DOORS* button on the remote key!

To switch off this automatic feature, turn the over-ride switch anti-clockwise with the over-ride key. However, this will turn off *all* functions of the theft deterrent system. It is recommended that the theft deterrent system is left on to protect your car against theft.

NOTES

- If the engine cranks over but fails to start, first check that the theft deterrent system is not turned on (*SECURITY* light is not flashing and/or *PRESS REMOTE* not flashing). If starting still fails, turn the over-ride key anti-clockwise and try again before calling service personnel. If the engine starts, after using the over-ride key, drive to your Holden Dealer and have the system checked.

- Remember that all turn signal lights on the car will flash twice when turning OFF the theft deterrent system. This is important to remember if you arm the car after a short delay because if you press the remote *DOORS* button 3 minutes after closing the last door, you will actually be turning the system off - not on. The turn signals on the car will indicate whether you are turning the system off or on.

- The system stays the same from when the battery is disconnected to when the battery is re-connected. This means that if your car is broken into and the battery quickly disconnected to stop the alarm, then as soon as the battery is re-connected the alarm will continue where it left off. The engine will remain disconnected.

- Remember that the dead-lock feature will not be activated if you lock the doors with the remote key. Deadlock can only be set by turning the ignition key to the horizontal position in the driver's door lock. Likewise, the remote key cannot unlock the car when the deadlock is set, you must use the ignition key. The remote key will only arm/unarm the theft deterrent system.

- The *DOORS* button on the remote key will not function when the ignition is turned ON. The *TRUNK* button, however, will function at all times, except when the car is moving.

- For your convenience, the interior light (inside the car) will illuminate for a short time when switching **off** the theft deterrent system with the remote key.

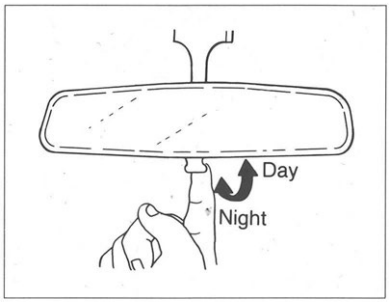
- Note that after setting the theft deterrent system you may still open the trunk via the *TRUNK* button on the remote key. This will not trip the alarm. Therefore, the theft deterrent system would not need to be reset after pressing this button *or* on re-closing the trunk. Remember that using the master key to open the trunk would, however, trip the alarm.

- In the event of battery failure, loss or damage of the remote key, you should use the over-ride key to switch the system on or off.

  example. If returning to an armed car without the remote key, open the door with the ignition key (the alarm will trigger), then shut off the theft deterrent system with the over-ride key. The engine can then be started.

  Then, when leaving the car, first switch the system on with the over-ride key, before locking the doors with the ignition key. This will not set the alarm but will, after 3 minutes, disconnect the engine (except for 4 cylinder export engine).

INTERNAL REAR VISION MIRROR



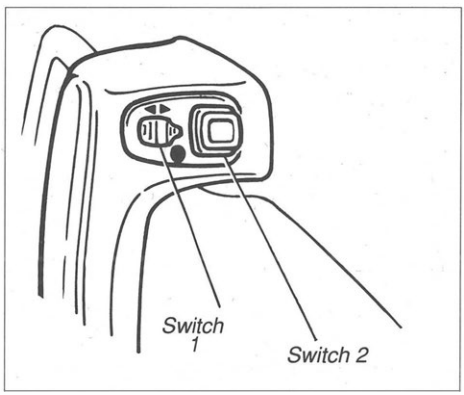
Moving the lever on the lower edge of the mirror reduces headlight glare from following vehicles, when driving at night.

During normal daylight operation, the lever should be set forward, away from the driver. To reduce the glare at night, flick the lever towards the driver.

EXTERNAL, MANUAL MIRRORS

Mirror angle is adjusted by the stalk on the inside of the front door(s). The angle of the mirror can be controlled by moving the stalk.

EXTERNAL, ELECTRIC MIRRORS (if fitted)



Mirror angle can be adjusted when the ignition is turned to ON via the switches on the driver's door armrest.

Switch 1 has three positions; left mirror, neutral and right mirror.

Press the edge of switch 2 in the direction you wish the mirror to move, i.e. top edge of the switch to move the mirror upwards.

Note: Do not press the *corner* of the switch to adjust the mirror - only the flat edge should be used.

VANITY MIRROR (if fitted)

For your convenience, a "vanity" mirror is fitted to the underside of the passenger's sun visor.

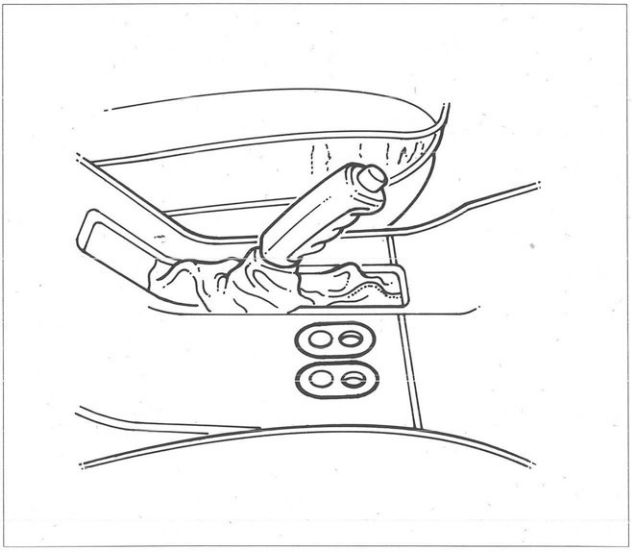
MANUAL WINDOWS

The door windows are lowered or raised by turning the winders fitted to each door.

ELECTRIC - 2 WINDOW (if fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when the system is active.

The controls for the windows are fitted in the centre console.



To raise the window, push raised section. To lower, push indented section.

"auto down" - driver's window only

Depress the down button for more than half of a second and remove your finger. The window will continue to open automatically until it is completely down. To interrupt the "auto down" press the up button.

"Tap" the down button to open the window in short steps.

Time delay

A time delay feature enables both windows to be operated for approximately 45 seconds after the ignition has been turned off and a door has been opened.

An additional time delay enables all the windows to be operated for approximately 1 hour after the ignition is turned off, providing none of the car doors are opened. If a door *is* opened, the 45 second door timer will override this feature.

The green "active" light on the buttons will go off when the time delay finishes.

ELECTRIC - 4 WINDOW (if fitted)

Electric windows are operational when the ignition is turned to ON - a green light on the buttons indicates when the system is active.

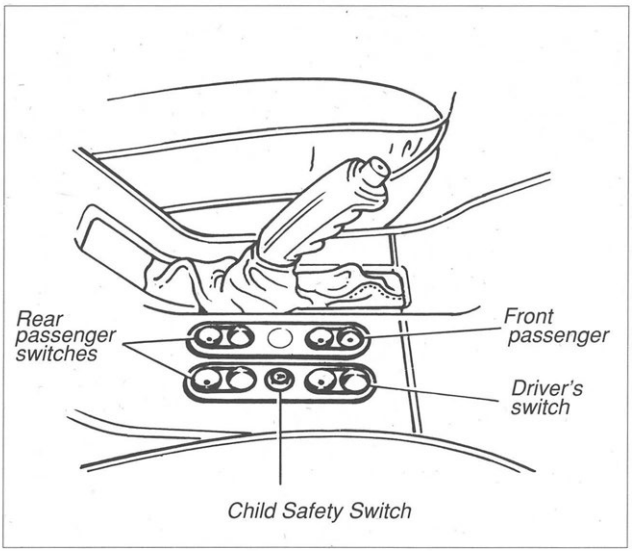
The master control for the windows is fitted in the centre console. Both rear door windows can also be operated by individual switches located on the rear doors. A "child safety" switch is provided in the master control to turn off the switches located on the rear doors.

To raise the window, push raised section. To lower, push indented section.

To turn off the switches located on the rear doors, press the "child safety" switch.

Note that the console switches for the rear windows will still be active.

Re-press the child safety switch to reactivate the switches located on the rear doors.



"auto down" - driver's window only

Depress the down button for more than half of a second and remove your finger. The window will continue to open automatically until it is completely down. To interrupt the "auto down" press the up button.

"Tap" the down button to open the window in short steps.

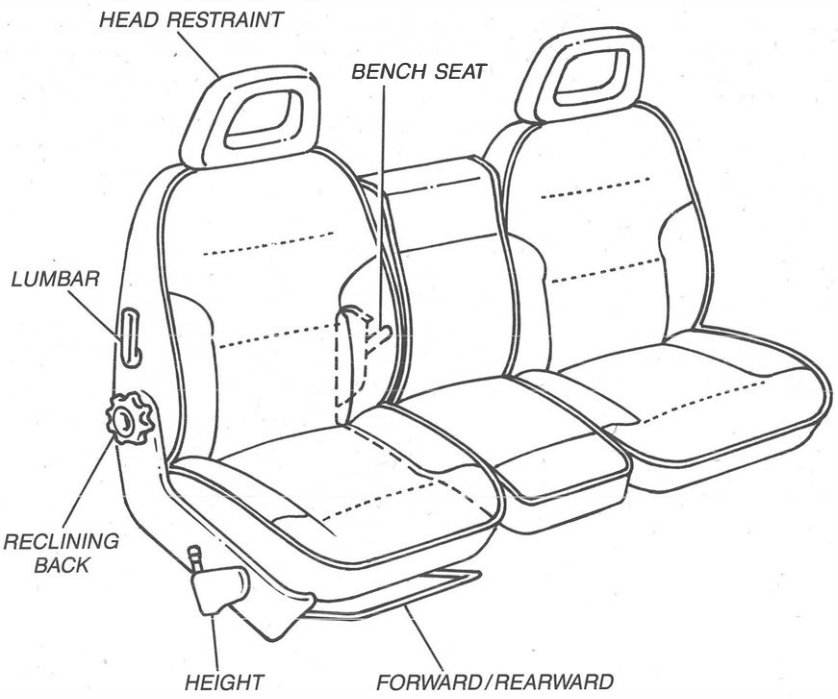
Time delay

A time delay feature enables all the windows to be operated for approximately 45 seconds after the ignition has been turned off and a door has been opened.

An additional time delay enables all the windows to be operated for approximately 1 hour after the ignition is turned off, providing none of the car doors are opened. If a door *is* opened, the 45 second door timer will override this feature. Remember that if the theft deterrent system is armed via the *DOORS* button on the remote key, the electric windows will immediately be deactivated.

The green "active" light on the buttons will go off when the time delay finishes.

Note that this illustrates all seat combinations; different features vary between models.



HEIGHT ADJUSTMENT (if fitted)

Extend the telescopic lever on the right hand side of the seat, and then rotate the lever either up or down, as required.

LUMBAR SUPPORT (if fitted)

Move the lever (on the door side of the seat) to alter support given to the lower part of your back. There are four positions: horizontal for full support, two intermediate positions, and vertical for least support.

RECLINING BACK

Turn the large toothed wheel on the door side of the seat. The seat back will move in the same direction as the top of the wheel. This adjustment is fitted to both the driver's and front passenger's seats.

CAUTION: To avoid reducing the effectiveness of seat belts, seats should only be *semi*-reclined when the car is moving. The fully reclined position should only be used when the car is stationary.

FORWARD AND REARWARD (if fitted)

Lift up the bar at the front of the seat, then slide the seat forwards or backwards. Release the bar. Try to move the seat back and forth to check that the catch is fully engaged.

Driver's seat: Do not adjust when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.

HEAD RESTRAINT

This safety feature is not intended as a headrest. It is solely for the reduction of possible injury that may result from a whip-lash neck movement following a vehicle collision. To adjust the height of the head restraint, pull up or push down, as required.

On some models the angle of the head restraint can be tilted to 3 positions. Pull the head restraint forward to position 2, pull again to position 3, and once more to return the head restraint to position 1 (upright).

BENCH SEAT (if fitted)

The middle section of the seat may be used in 2 positions; either upright or folded down for an armrest.

To fold down, reach in between the driver's seat and the middle seat. Move the lever forward and fold the back of the seat down. To regain use of the middle seat, simply push firmly back into the upright position.

WAGON

To fold down the rear seat:

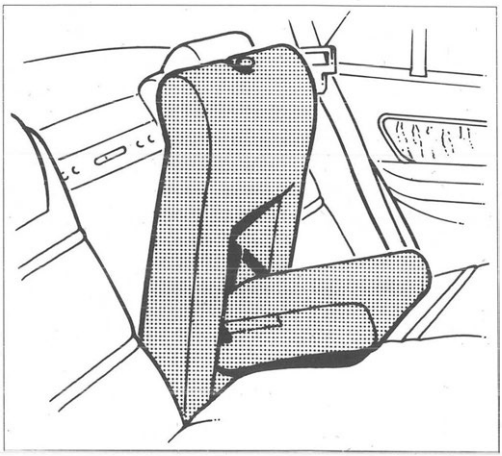
1. Push down either of the lock buttons located on the upper edge of the back of the rear seat.
2. The seat back can then be pulled forward.
3. Apply pressure to the back of the seat and the safety flap will lock into its correct position.

To return the rear seat to its normal position, first press down on the leading edge of the seat back and release the safety flap. Then raise the seat to the upright position. Ensure that the seat back is secured firmly in place and that the seat belts are free.

CAUTION: To avoid injury from passing cars, always avoid standing on the right hand side of the car (if the car is parked at the kerb) when converting the rear seat.

SEDAN

The middle section of the rear seat may be folded forwards to gain access to the boot area or for carrying long, awkward loads.



To fold the middle section forward, pull up the lock button at the top of the middle section.

To return to the upright position, simply push back into place and check to ensure the lock button is engaged.

In addition, Berlina and Calais models have an armrest provided in the middle section. To fold down the armrest, insert your hand at top of the armrest and pull down. Push up armrest if upright position is required.

RETRACTOR BELTS

To put on a retractor seat belt, pull the metal tongue across your body and clip into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then (if applicable) up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the lap sections and (if fitted) sash sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Middle rear lap seat belt - retracting (if fitted)

The seat belt must be pulled out to at least the required length before clipping into place. Otherwise the belt may 'lock', stopping further extension of the seat belt. If this happens, allow the belt to fully retract before refitting.

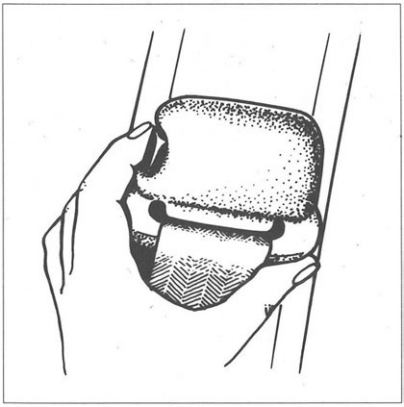
Front seat belt - shoulder height adjust (if fitted)

The seat belt is anchored to the car near your shoulder. The position of anchorage can be moved to 5 different heights.

To move, hold the button fully in while moving. Release button at required position and ensure anchor has clicked into position.

Short people should select a low anchor position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt fits *on* the shoulder.

For your safety, the driver's side shoulder anchor should not be adjusted while the vehicle is in motion.

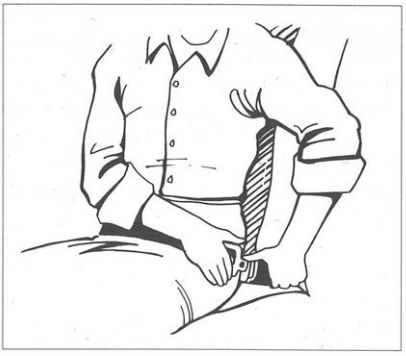


NON-RETRACTOR BELTS

To adjust: Settle yourself comfortably. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.



WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

WARNING:

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

INFANT AND CHILD RESTRAINTS

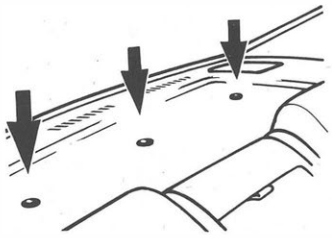
CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE. In some Countries/States it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with regular seat belts or an approved child restraint.

Where children are restrained with the regular seat belt and it is desired to raise their seating position this is to be done only by means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF A VEHICLE COLLISION.

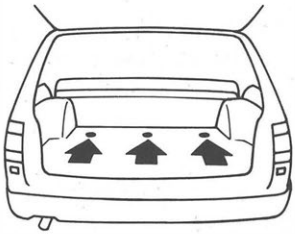
CHILD RESTRAINT ANCHORAGES

Your vehicle is fitted with anchorage points for child restraints. Using a small 'blade' screwdriver, unscrew and remove the plugs. Install child restraints with the correct anchor bolts, refer page 2-25.

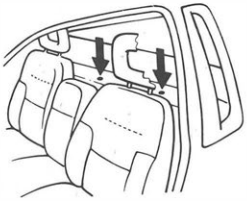
SEDAN - on the rear window ledge



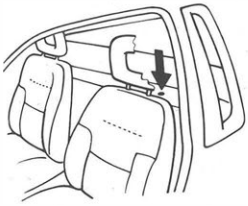
WAGON - behind the rear seat



UTILITY WITH BENCH SEAT - behind the middle and passenger seats



UTILITY WITH BUCKET SEATS - behind the passenger seat



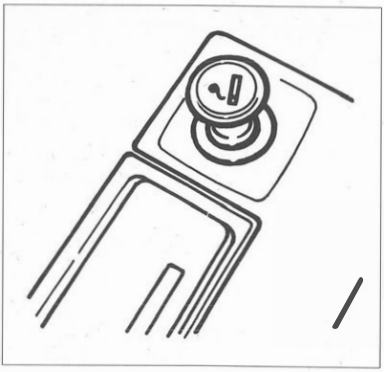
Only approved child restraint harnesses should be used on anchorage points. See your Holden Dealer for advice about the various types of approved child restraints available.

INFANTS UNABLE TO SIT BY THEMSELVES should be carried in an approved child seat restraint (capsule). Check with your local Infant Welfare Centre for availability. Always ensure that the seat belt fits snug and tight around the child/ baby restraint.

The Holden child seat is designed for children weighing 9 to 19 kg, up to 1 metre in height, who are unable to sit up alone.

CIGARETTE LIGHTER

The cigarette lighter is operational when the ignition is turned to either ON or ACC. To operate, simply press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use.

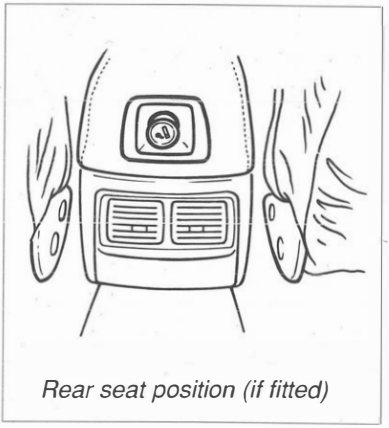


Front bucket seats. The cigarette lighter is located on the console, between the two front seats.

Front bench seat. The cigarette lighter is fitted beneath the heater controls.

Rear seat (if fitted). The additional rear cigarette lighter is located between the two front seats, at the rear of the console.

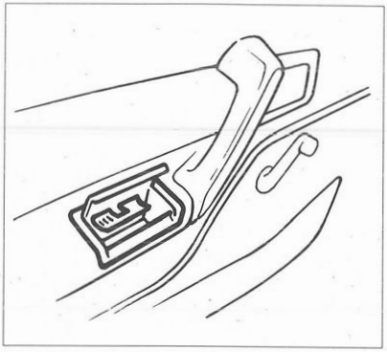
Note: Any accessory device (car fridge etc.) connected into the cigarette lighter socket must not exceed a current draw of 10 amps. Any device exceeding 10 amps should instead be connected to the battery.



Rear seat position (if fitted)

ASH TRAY

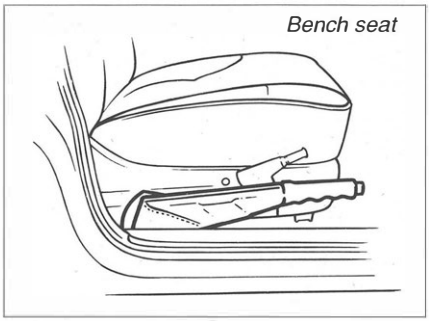
The front ash tray is located either in the centre console (with bucket seats) or on either door arm rest (with bench seat). To use, flip up the hinged cover. To clean, pull up the tray by grasping the cover flap.



Rear ashtrays (if fitted) are located in the rear arm rests. As with the front ash tray, they may be removed for cleaning by flipping up the hinged cover and then pulling out.

PARK BRAKE

The park brake lever is mounted on the right of the driver's seat (with bench seat) or between the front seats (with bucket seats).

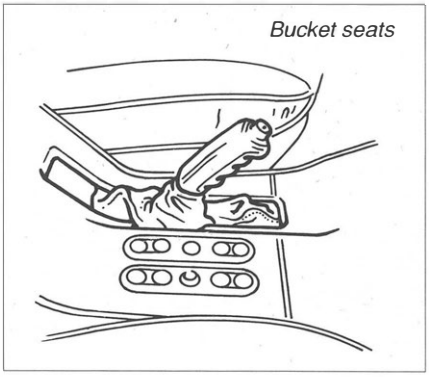


- To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.

- When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the parking brake is applied.

- NEVER drive the vehicle with the park brake applied.

- IF WARNING CHIME FITTED. If you attempt to drive off without releasing the park brake an audible warning chime will be heard. When driving, this will repeat every minute until the park brake is released.

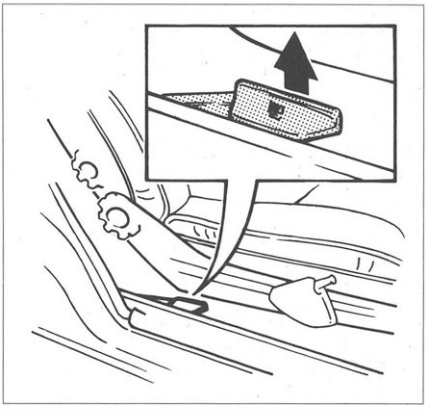


FOOTREST

The footrest for the driver's left foot is adjustable to three places. First undo the two screws on the right hand side of the footrest. Move the footrest forward or backward as required, then replace the screws. If you have any problems with this adjustment, your Holden Dealer will be happy to assist.

FUEL FILLER RELEASE (if fitted)

A remote release lever for the fuel filler flap may be provided inside the vehicle. Pull up the release lever, mounted on the floor, to the right of the driver's seat.



If your vehicle is *not* fitted with a remote release, then simply flip the fuel filler flap open from outside the vehicle.

The fuel cap is a screw-on ratchet type. Tighten the cap clockwise until a clicking noise is heard, before closing the flap. Refer to information in Chapter 4 when refuelling.

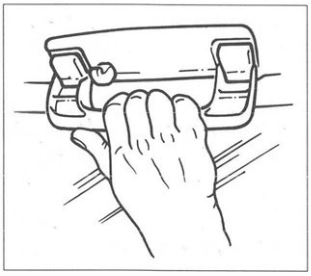
MANUAL ANTENNA

To guard against breakage, the antenna may be pushed fully down. To re-extend, you must insert the special key provided into the slots at the base of the antenna and pull up the top of the antenna. The antenna can then be extended for maximum distance reception.

Electric antenna, refer page 1-10.

FOLDING ASSIST GRIPS (if fitted)

Assist grips are provided in the roof, above passenger doors. If your car is fitted with the spring loaded type, they will tuck back into place when released.



READING LIGHTS (if fitted)

The rear reading lights may be individually turned to OFF, ON or to DOOR. If DOOR is selected, then they will operate in conjunction with the centre dome light, refer page 1-12.

Front reading lights may be switched ON or OFF, as required.

TONNEAU COVER (if fitted)

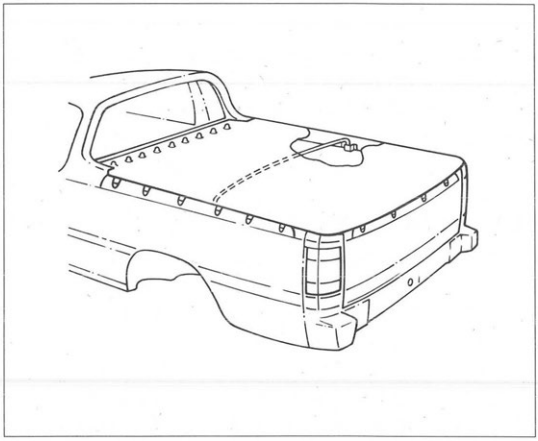
To install the tonneau cover, first secure the press studs along the lower edge of the rear window.

The other three sides of the tonneau are held in place with an elasticised strap. Starting at one of the front corners, work around the vehicle, pulling the strap over the hooks on the body of the vehicle.

Note that the hooks on the side of your utility are purely for securing the tonneau cover.

Please do not use as tie down hooks for securing goods. Damage to the body may result.

Tie down goods only with the correct anchorages. These are available as an accessory, from your Holden Dealer.



The illustrations below show how to install anchor fittings for child restraints into the locations shown on page 2-21.

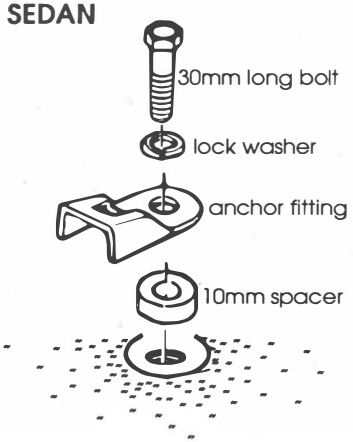
CAUTION: The illustrations are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments).

These illustrations are *not* applicable to older child restraints, *not* complying with Australian Standard AS 1754-1991, as the older child restraints may not attach securely to this type of anchor fitting.

EXHAUST GAS WARNING - also refer page 4-2.

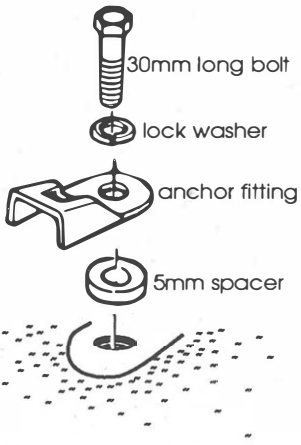
If the child restraint anchor bolt is removed from the floor the hole must be effectively sealed to prevent exhaust gases entering the vehicle interior. Either another suitable bolt or the plug originally fitted in the hole should be used.

SEDAN



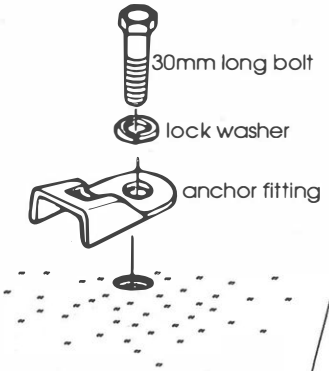
WAGON

First lift up flap in carpet

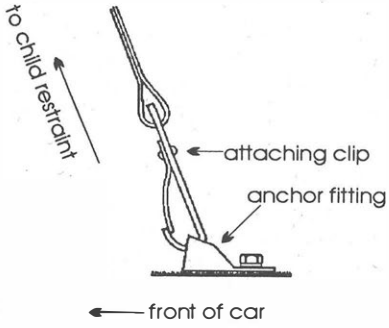


UTE

First lift up carpet (if fitted)



Typical child restraint anchor fitting and attaching clip



Chapter 3

Starting and Driving

Page

3-2 Safety

3-2 Engine starting

3-3 Manual transmission

3-4 Automatic transmission (V6 & V8 engines)

3-6 Automatic transmission (L4 export engine)

3-7 Running-in

3-7 Driving precautions

3-8 Luggage tie down straps

3-8 Snow chains

3-9 Anti-lock Brake System (if fitted)

BEFORE ENTERING THE VEHICLE

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your vehicle is clear.

BEFORE DRIVING OFF

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

ENGINE STARTING

1. Ensure the park brake firmly applied and release only after you have started the engine and are ready to drive off.
2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC (if fitted): Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.
3. Start the engine as outlined below (with your foot off the accelerator).

For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts. YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.

You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up. You may otherwise cause premature engine wear or engine damage.

Flooded petrol engine

Cranking the engine for a lengthy period without it starting could result in *flooding* (too much fuel injected into the engine). If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position. When the engine starts, allow the accelerator pedal to come up slowly.

PARKING

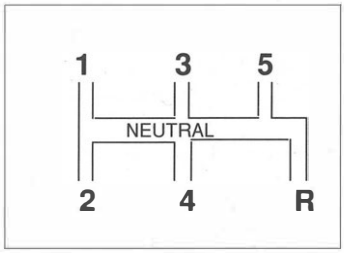
1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors when outside the vehicle.
6. Switch on anti-theft and/or deadlocking (if fitted).

CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

This system has 5 synchronised forward gears and a non synchronised reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

When selecting REVERSE gear you must shift the gear lever sideways against spring pressure in order to pass into the gear.

For L4 engines, the knob on the gear stick (beneath the handle) must be lifted when shifting to reverse.



CHANGING UPWARDS
(upshifting)

The recommended change speeds at which upwards gear changes should be made (under normal conditions) are shown in the chart.

Upshifting at higher road speeds will be necessary according to varying driving conditions such as vehicle load, road gradient; during overtaking and when other than light acceleration is required.

RECOMMENDED CHANGE SPEEDS

Gear Change	Shift speed (km/h)					
	Normal Conditions			For max* Economy		
Engine	V6	V8	L4	V6	V8	L4
1st~2nd	25	20	25	20	20	25
2nd~3rd	45	30	45	40	30	45
3rd~4th	60	45	60	50	40	60
4th~5th	85	65	75	55	55	75

*when operating under light load/low throttle conditions.

OPERATING NOTES

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the vehicle has completely stopped. A slight pause between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the back-up lights will operate.
- Shift the gear lever with a moderate effort to allow time for the transmission synchronizers to work properly.
- To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.
- Do not overspeed the engine when shifting down to the next lowest gear.
- 4th gear provides direct drive and 5th gear, overdrive.

★ The transmission will not downshift to 1st gear when speed is above 60 km/h.

★ Don't rev the engine with the brakes on in either 1, 2, D, overdrive or R. This will overheat the transmission.

★ Don't rev the engine to hold the vehicle on a slope. Use the brakes.

★ Don't coast the vehicle in N - this lessens your control and the engine braking power.

★ Refer page 7-7 when checking automatic transmission fluid level.

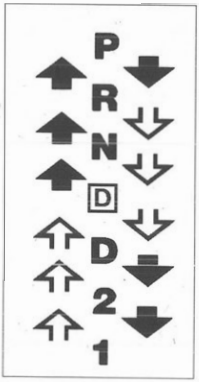
★ NOTE: The engine will *not* start unless the selector is in P(park) or N(neutral).

Floor mounted shift

If your vehicle is fitted with front, bucket seats, then the transmission lever will be mounted on the floor.

Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

You may shift *without* raising the handle into any position marked by the outline arrow.



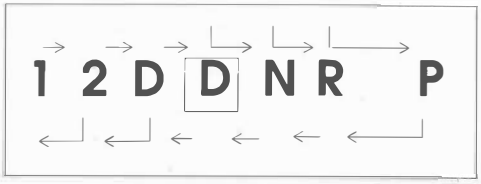
Column mounted shift

If your vehicle is fitted with a front bench seat, then the transmission will be controlled by a column shift, mounted to the left of the steering column.

The gear indicator is mounted just above the steering column.

Pull the shift lever towards you when shifting into any position indicated by the bent arrow.

You may shift into any position marked by the straight arrow *without* pulling the lever towards you.

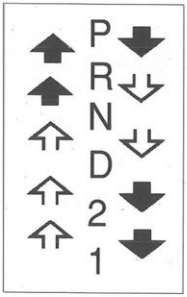


P (park)	This stops the rear wheels from turning and so should be selected (together with the park brake) when leaving the vehicle. Never select *P* until your vehicle is fully stopped.
R (reverse)	Never select *R* until your vehicle is fully stopped. Reversing lights will operate when *R* is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving.
D (overdrive)	This is the most effective position for normal or freeway driving. The overdrive position gives maximum fuel efficiency, as the transmission can choose the appropriate gear (1 through to 4) for the existing load and driving conditions. This position can be used for towing under *ideal* conditions.
D (drive)	Drive is most effective when overtaking and gives responsive acceleration and deceleration, especially in hilly areas. This position allows the transmission to shift to first, second or third gear as conditions require. Overdrive (4th gear) is excluded. Use this position for most towing. However, under ideal towing conditions, overdrive may be selected.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little with minimal use of the brakes. The transmission will shift to first or second gear as required. Move the lever back into the overdrive position to return to normal driving.
1 (first)	Use this position when strong braking effect is needed on a steep gradient. Remember to move the lever back to overdrive position so that the transmission will again upshift into higher gears. Note: Even though the T-bar may be in 1, the transmission will not select first gear until vehicle speed is less that 60 km/h. Take extreme care when selecting 1 if towing a trailer or caravan on a steep incline.

Raise the release bar below the T-bar handle when shifting into any position indicated by the black arrow.

You may shift *without* raising the handle into any positions indicated by the white arrow.

NOTE: The engine will *not* start unless the selector is in P(park) or N(neutral).



P	*PARK*. This stops the rear wheels from turning and therefore should be selected (together with the park brake) when leaving the vehicle. Never select *P* until your vehicle is fully stopped.		
R	*REVERSE*. Never select *R* until your vehicle is fully stopped. Reversing lights will operate when *R* is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.		
N	*NEUTRAL*. This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving.		
D	*DRIVE*.	PWR button in	This is the normal driving position and allows the transmission to choose the appropriate gear (1st through to 4th) for the driving conditions.
		PWR button out	When the button (on the side of the T-bar) is out, the transmission will be in the power mode, i.e. the transmission will act as a 3 speed - 4th gear will *not* be available. Note that the *PWR* symbol on the instrument panel will be illuminated when the button is out. Press the button in when 4th gear is again required.
2	*SECOND*. Use this position when going down a moderate hill where you want to slow down a little with minimal use of the brakes. The transmission will shift to first or second gear, as required. Shift back into the overdrive position to return to normal driving.		
1	*FIRST*. Use this position when strong braking effect is needed on a steep gradient. Remember to shift back to overdrive position so that the transmission will again upshift into higher gears.		

- The transmission will not downshift to 1st gear when speed is above 60 km/h.
- Don't rev the engine with the brakes on in either 1, 2, D, or R. This will overheat the transmission.
- Don't rev the engine to hold the vehicle on a slope. Use the brakes.
- Don't coast the vehicle in N - this lessens your control and the engine braking power.
- Refer page 7-7 when checking automatic transmission fluid level.

"RUNNING-IN"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 kilometres, don't exceed 80 km/h.

Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time. Therefore, avoid using the cruise control (if fitted) while "running-in". However, include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

It is best to drive your new vehicle for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

BRAKES

- Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. Never coast with the engine switched off.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.
- Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.
- In the best interest of the environment, the brake pads fitted to this vehicle are entirely asbestos free. The friction level, or grip, of this type of brake pad can benefit from occasional moderate to heavy use of the brakes - especially if the normal day to day use is light braking only.
  Note however that *consistent*, heavy use will shorten the life of the brake pads.

POWER STEERING

- Power assisted steering, which is fitted to your vehicle, has been designed to reduce steering effort. It uses hydraulic pressure to lighten steering loads and is designed so that "road feel" is retained. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates unnecessary high operating pressures within the system.
- If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

TYRE TRACTION

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

WATER CROSSING

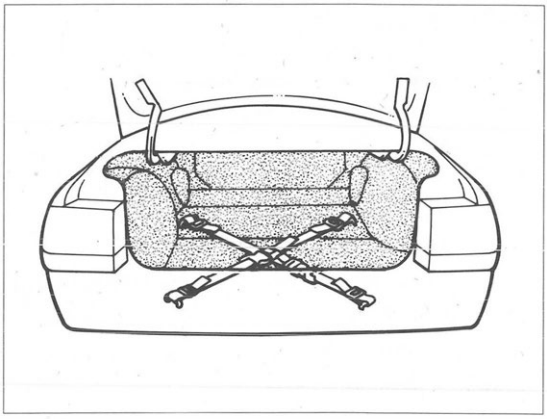
Before crossing water it is recommended that air conditioning of be switched off if your vehicle has a 6 cylinder engine.

LOOSE ARTICLES

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow articles in the luggage compartment. For wagons, loads stowed in the luggage area should be firmly secured.

Luggage straps (if fitted)

- Thread the free end of the strap through the anchor bracket on the floor.
- Pass the strap back through the sliding buckle. Ensure that the strap passes under both bars of the sliding buckle.



SNOW CHAINS

Due to lack of clearance, snow *chains* should not be fitted to 7" wheels.

Snow chains should be fitted only on the rear (drive) wheels.

Depending on design, large hub caps may contact parts of the chain. If so, remove the hub caps. Any valve extensions should also be removed.

Snow chains may only be used at speeds up to 50 km/h.

Snow chains should only be used for short distances if the roads are not snow covered. The hard road surface causes rapid wear and the chain may break.

The part of the snow chain that covers the tyre tread should not be thicker than 13 mm.

The part of the snow chain that wraps around the side of the tyre should not be thicker than 18mm (including the chain clasp).

The use of thicker chains may cause damage to the body of the vehicle.

Ensure that tyre pressure are as per pressures recommended on the tyre placard.

ABS (Anti-lock Brake System) is in addition to your car's normal brake system. It prevents the wheels from locking up when braking, irrespective of the road conditions and tyre grip. It starts to regulate the braking as soon as a wheel shows a tendency to lock. The car remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Maximum braking is provided for each wheel, up to the point where it would lock. This means that steering control is retained.

DO NOT let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by safe driving. Your speed should always be adjusted to suit road and traffic conditions.

An ABS OFF warning light is provided beneath the gauges. To check that the bulb is working, the light will come on when the ignition is first turned on and goes out after the engine is started. If this symbol is displayed when driving a malfunction of the ABS system is indicated. Remember, however, that this only means that the ABS's 'no lock' assistance is not operating, your car's conventional brake system will still operate normally.

When your car is in a critical braking condition ABS will make itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

When the ignition is turned on (and car speed is greater than 6 km/h) the ABS system performs a self check. This may be heard as well as felt, as pulsing, through the brake pedal.

Chapter 4

Fuel

Page

4-2 Carbon monoxide caution

4-3 Petrol filling

4-4 Fuel Tank capacities

4-5 Emission Control

4-6 Reducing fuel consumption

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gas entry into the interior of the vehicle we recommend that the exhaust system and body be thoroughly inspected:

- each time the vehicle is serviced

- whenever a change is noticed in the sound of the exhaust system

- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

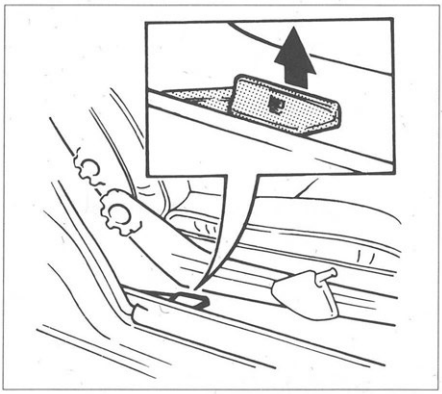
Driving with the boot or tailgate open is not recommended. If you must travel with the boot or tailgate open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

CAUTION: Petrol is extremely flammable and highly explosive, under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refuelling. If petrol fumes are noticed while driving, the cause should be found and corrected without delay.

A release lever for the petrol filler flap may be provided inside the vehicle, on the floor, to the right of the driver's seat. Pull the lever up.

If your vehicle is *not* fitted with a remote release, then simply flip the petrol filler flap open from outside the vehicle.

The petrol cap (located under the petrol filler flap) is a screw-on, ratchet type. After refilling, tighten the cap clockwise until a clicking noise is heard, before closing the flap.



Over filling of the petrol tank can affect the evaporative Emission Control System. Over filling can also result in a smell of petrol inside the vehicle!

To avoid this, the following recommendations are made:

1. Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off (or petrol blows back) - as this allows room for the petrol to expand inside the tank.

2. It is permissible to "trickle fill" petrol tanks when vehicles are to be driven for more than 50 km straight after the tank is filled. However, this is not recommended on hot days (over 30° C).

Wipe off any overflowing petrol immediately.

Note that unleaded petrol results in black tail pipe deposits rather than the grey colour with which most people are familiar. Therefore, the black colour does *not* indicate poor engine tuning.

VEHICLES OPERATED IN AUSTRALIA

To reduce the exhaust pollutants in the atmosphere, your vehicle has been designed to operate on a good quality, clean UNLEADED PETROL of at least 91 octane rating (Research Octane Number), as indicated by the label on the petrol cap.

The use of any other petrol will seriously damage the fuel system of your vehicle (particularly the catalytic converter and oxygen sensor) and may void your Warranty.

PETROL FILLER NOZZLE RESTRICTOR

A petrol nozzle restrictor is fitted to ensure that UNLEADED petrol is used. This allows the thinner, unleaded petrol nozzle to open the hinged flap, so that petrol may be added to the tank. The leaded petrol nozzle is wider and therefore cannot open the flap.

Tank capacities

Sedan - 63 litres (standard L4 and V6 engines)
- 80 litres (standard for V8 engines, optional for V6 engines)

Wagon - 68 litres

Utility - 68 litres

EXPORT VEHICLE ONLY

All 4 cylinder engines: require a good clean, leaded *or* unleaded petrol of at least 95 Octane Rating (Research Octane Number).

V6 and V8 engines:

In New Zealand and other countries where there is a petrol filler restrictor fitted to your vehicle, your vehicle should be operated on a good quality, clean UNLEADED PETROL of at least 91 octane rating (Research Octane Number), as indicated by the label on the petrol cap.

In other countries where there is no petrol filler restrictor fitted to your vehicle, your vehicle may be operated on good quality, clean petrol which is either 91 octane (unleaded) or 96 octane (leaded). Note that V6 and V8 engines were designed for 91 (unleaded) petrol - the use of 96 octane petrol will not enhance engine performance.

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions, produce photochemical smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air. The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System** (Australian Vehicles Only)
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to the appropriate service manual for your vehicle. Also refer to the emission label inside the engine compartment (on the passenger side strut tower) of your vehicle.

OWNER RESPONSIBILITY

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements. Export vehicles comply with the ECE R15-04 Emission requirements, where regulations exist.

To ensure that these components achieve their purpose of controlling the emission of pollutants to the atmosphere, the engine or exhaust system of your vehicle must NOT be modified in any way. Any departure from the Manufacturer's design specifications may increase the emissions or otherwise defeat the intent of the regulations.

ANY PERSON WHO REMOVES, MODIFIES OR OTHERWISE RENDERS INEFFECTIVE ANY EMISSION CONTROL COMPONENTS FITTED TO A VEHICLE WILL BE CONTRAVENING THE RELEVANT REGULATIONS. ANY PERSON WHO OWNS AND OR OPERATES SUCH A VEHICLE COULD ALSO BE GUILTY OF AN OFFENCE UNDER THE REGULATIONS.

MAINTENANCE REQUIREMENTS

To ensure continuing compliance with the regulations it will be necessary for you to maintain your vehicle's emission control system in accordance with the instructions given in the Holden's Maintenance Plan (refer Chapter 11) and the relevant Service Manuals.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

VEHICLE MAINTENANCE

Maintain your vehicle in peak mechanical condition by having it serviced regularly in accordance with the Holden's Maintenance Schedule, refer page 11-2. This will ensure items such as spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption and peak engine performance.

TYRE PRESSURE

Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance which contributes to increased fuel consumption, refer page 7-11.

WHEEL ALIGNMENT

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag and increases fuel consumption.

WARM UPS AND EXCESSIVE IDLING

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

You should also avoid excessive engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

ACCELERATING, DRIVING & BRAKING

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle accelerations - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

NOTE: "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake pads faster, damage the brakes and waste fuel.

Chapter 5

Accidents and emergencies

Page

5-2 What to do at the scene of the accident

5-3 Medical assistance

5-4 Spare Wheel Location

5-6 Flat Tyre

5-9 Hazard Warning Flashers

5-9 Towing a Disabled Vehicle

5-10 Engine Overheating

5-12 Flat Battery

5-14 V6 Engine Belt Replacement

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

Part 1. ACCIDENT - BEING INVOLVED

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. ACCIDENT - BEING A WITNESS

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident just to be a spectator.

Where other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.

Give what assistance you can to any injured persons. (See Part 3. Medical assistance).

Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

Part 3. MEDICAL ASSISTANCE

Keep calm and think clearly.

Your experience may not be much but do your best. Don't just stand by and let an injured person die.

- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.
- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injuries - then:
Bend the uppermost knee until the thigh is at right angle to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

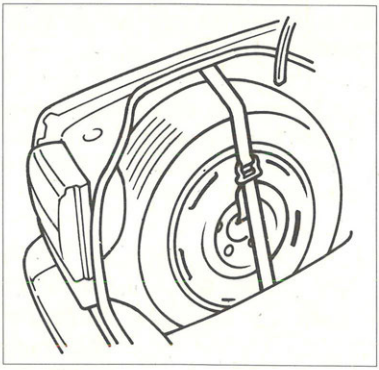
- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

If using a jack other than the one supplied with the vehicle, refer page 7-21 for lifting positions.

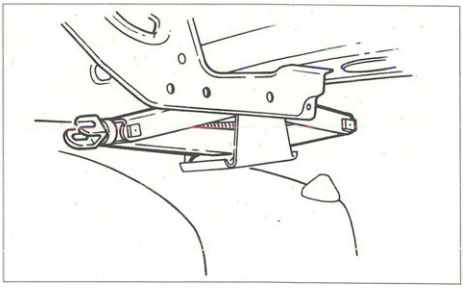
SEDAN

The spare wheel, jack, jack handle and wheel wrench are stored inside the boot.



The spare wheel, jack handle and wheel wrench are on the left side of the boot. Push strap buckle upwards to release.

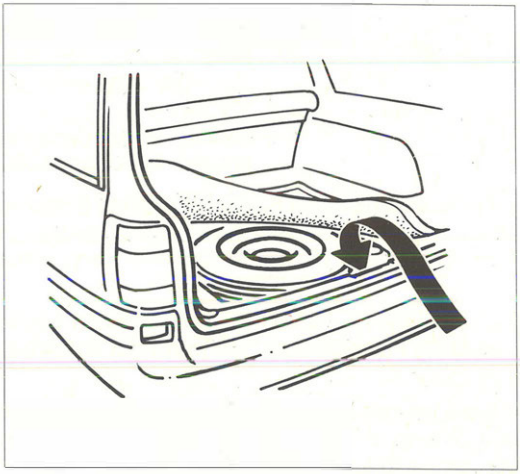
Using the jack handle, loosen the jack which is located under the parcel shelf, pointing towards you. The jack can then be pulled out towards you.



Note, when reinstalling the spare wheel, thread lower strap through buckle on upper strap, slip wheel wrench through loop, then tighten strap firmly by pulling the end of the strap downwards.

WAGON

The spare wheel, wheel wrench, jack and jack handle are stored under a cover in the rear load area.

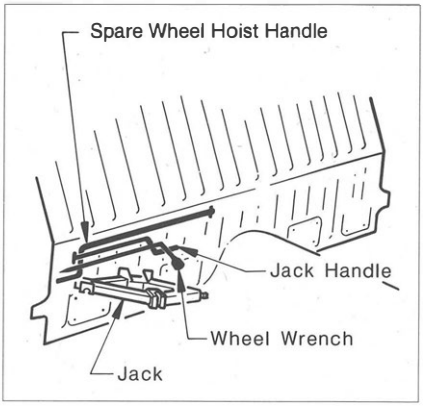


- Open the tailgate and roll the carpet forwards.
- 14" wheels - unclip the spare wheel cover then lift cover up. 15" wheels - unscrew the centre retaining nut and lift up cover.
- Unscrew the wheel retaining nut and remove the spare wheel.
- The wheel wrench, jack and jack handle are located at the very rear of the spare wheel compartment. Unclip the wheel wrench and jack handle (below the jack) then, using the jack handle, loosen off the jack. The jack can then be pulled to the left and out.

UTILITY

Remove the tools from behind the seats:

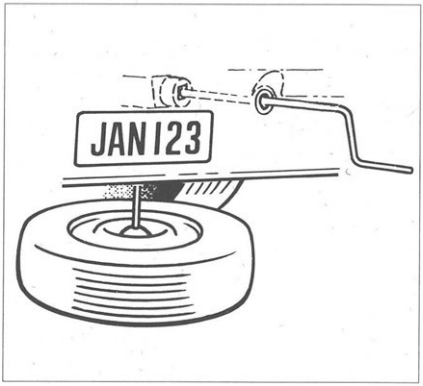
- wheel wrench
- jack
- jack handle
- spare wheel hoist handle



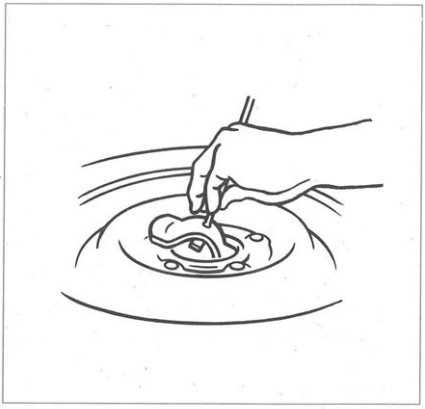
At the rear of the vehicle insert the spare wheel hoist handle through the round hole near the rear licence plate.

"Jiggle" the hoist handle until the square end of the handle is located in the square cut out in the hoist.

Turn the lever anti-clockwise to fully lower the spare wheel.



Tilt the wheel retainer, allowing this to pass through the centre of the wheel.



To replace:

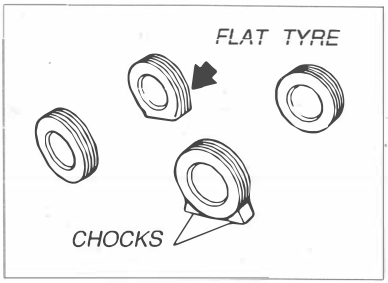
Place the flat tyre under the vehicle, directly beneath the hoist with the tyre valve facing upwards. Tilt the wheel retainer and place through the wheel.

Insert the spare wheel hoist handle and turn clockwise as far as possible until a positive stop is felt.

CAUTION:

- Use the jack only for lifting the vehicle when changing wheels.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations can cause vehicle damage.
- The vehicle should only be jacked on hard, level surfaces.

1. Park on level surface and set parking brake firmly.
2. Remove the ignition key and place manual transmissions in REVERSE gear or automatic transmissions in PARK.
3. Remove the jack, jack handle, wheel wrench and spare wheel (see previous page).
4. Block the wheel diagonally opposite the flat tyre.



5. Remove the wheel trim for Sedan and Wagons as follows:

   If centre cap is fitted, remove the centre cap by inserting the handle end of the wheel wrench between the wheel and the centre cap at the slots provided and gently lever off.

   If individual plastic caps fitted, remove the individual plastic caps, covering the wheel nuts.

   Where full wheel trim fitted, remove the trim by inserting the handle end of the wheel wrench between the wheel and the wheel trim. Working around the wheel, gently and evenly lever off the wheel trim.

6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.

7. Place jack below the jack location nearest the wheel to be changed.

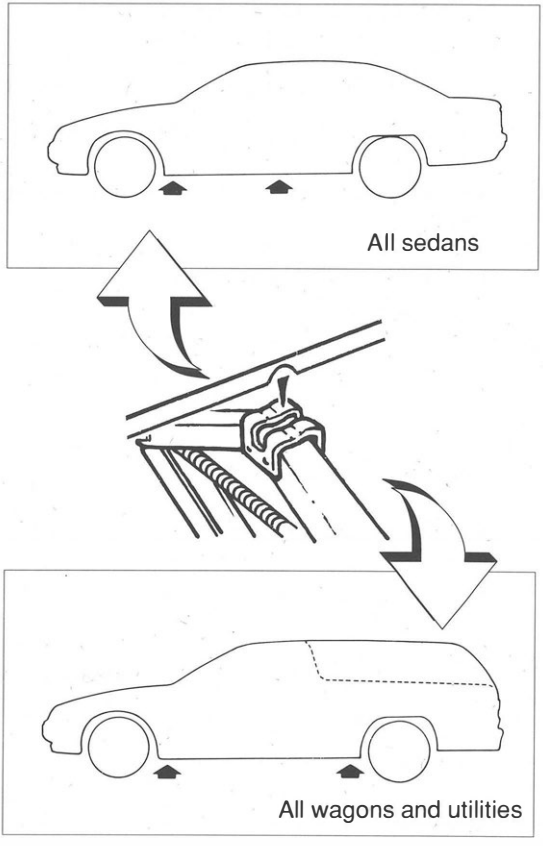
   There are four jack locations, two each side of the vehicle. The location for the jack is marked by half circle cut outs.

   Different models require different *rear* jacking locations.

   For sedans, the jacking location is half way along the car, when changing a rear wheel.

   However, for wagons and utilities, the jacking position is closer to the rear wheels (see illustration) when changing a rear wheel.

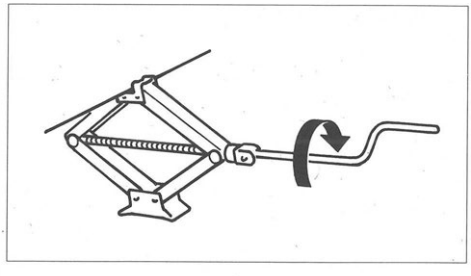
   Note, always rear the label on the jack for your vehicle.



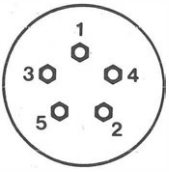
CAUTION: Failure to position the jack as described above could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

8. Raise the jack to engage the "U" shaped lifting foot of the jack over the underbody flange at the jack location.

   Ensure that the jack is not tilted and that the base is resting squarely on the ground.



9. Raise the vehicle until the tyre is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.
10. *Utility only.* Remove centre cap and place with wheel nuts.
11. Remove the wheel from the vehicle and change it over with the spare.
12. *Utility only.* Replace centre cap on installed wheel.
13. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.
14. Lower the vehicle completely and remove the jack.



15. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.
16. Replace the wheel trim on sedans and wagons as follows:

    Where centre cap fitted, locate the centre cap at the notches provided and push on by hand.

    Where individual plastic caps fitted, replace plastic caps.

    If full wheel trim fitted, locate the valve in the valve hole provided in the wheel trim. Working around the wheel trim, use several light blows with the palm of your hand to push on the wheel trim. It may be necessary to protect the hand during this operation.

17. Stow the jack, jack handle, wheel wrench and flat tyre as shown on page 5-4 or 5-5.

CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 100~125 Nm.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

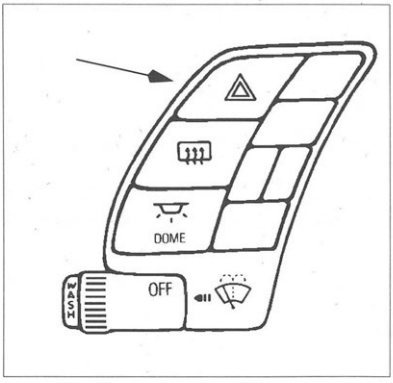
TOWING A DISABLED VEHICLE

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. Country, State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transmission in neutral position and release the park brake.
- Switch the ignition key to "ACC" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes and power steering (if fitted) will not be available when the engine is off.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "re-circulate" position.
- Vehicles fitted with automatic transmissions must not be towed for more than 55 km or at over 55 km/h unless the propeller shaft is removed.
- Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be in a towed vehicle.

HAZARD WARNING FLASHER

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.



- Turn on the hazard warning flasher by pushing the switch located on the left side of the instrument cluster. The arrow symbols on the instrument panel will both flash simultaneously and all four external signal lights will flash continuously.
- The hazard warning flasher will work with the ignition either off or on.
- To turn off, repress the switch.

CAUTION: If the engine should overheat, as indicated by the temperature gauge reading or if you suspect there is a serious overheat condition immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or severe vehicle damage.

If the coolant temperature gauge needle should move to the 'H' position and remain there for more than 30 seconds, pull out of the traffic as soon as it is safe to do so and stop the vehicle. Leave the engine idling for a few minutes, whilst you step out of the vehicle to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge needle has not returned to its normal position within this time then STOP the engine, turn the ignition key to OFF and proceed as follows.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level.

CAUTION: Do not remove the cooling system caps if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

When the engine has cooled sufficiently, check the engine coolant level as follows:

V6 and V8 engines

First, remove the radiator cap - cover the cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

Second, remove the plastic coolant tank cap.

With the radiator cap OFF, top up the plastic coolant tank if required, refer page 7-3 if unsure of location. Remember to ensure cap is secure after filling. Then, WHILE THE ENGINE IS IDLING, top up the radiator (if required) and replace the radiator cap.

L4 (export) engines

L4, four cylinder engines do not have a radiator cap, only a cap on the plastic coolant tank. Cover the cap with a thick cloth, turn slowly anti-clockwise and remove. Top up the tank WHILE THE ENGINE IS IDLING. Replace the cap and leave the engine idling for at least 5 minutes.

If, after taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature. It may also be an advantage to turn the off the air conditioner (if fitted) in these circumstances.

Refer to page 7-6 which gives maintenance instructions to help protect your cooling system from overheating.

AUSTRALIAN VEHICLES ONLY CAUTION: DO NOT attempt to "push start" or "tow start" your vehicle (either manual or automatic transmissions). All Australian vehicles are fitted with a catalytic converter and if uncombusted fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, Australian vehicles should only be "jump started" if the battery is flat.

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

JUMP STARTING

CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

- Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.
- Do not smoke near a battery.
- Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.
- Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewelry before working around the battery.
- Carefully follow each step in the jump starting procedures.
- Never use a quick charger to start your engine.
- If you have a telephone fitted to your vehicle, you should remove the fuse for the telephone before jump starting. Remember to reinstall the fuse afterwards.

1. The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used.

2. Position the two vehicles so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.
3. Attach one end of the red jumper cable to the positive terminal of the other vehicle's battery (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the red cable to the positive terminal of your vehicle's battery.
4. Attach one end of the black jumper cable to the negative terminal of the other vehicle's battery (identified by a black colour, - or N on the battery case, post or clamp) and the other end of the black cable to a solid stationary, metallic point on your vehicle's engine. DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF YOUR VEHICLE'S BATTERY.
5. When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.
6. Start the engine in the other vehicle and run the engine at a moderate speed. Then start the engine in your vehicle.
7. When the engine starts, leave it running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

Note that your radio may be inoperative after jump starting, due to security being triggered. Input of your Personal Identification Number is required, refer page 1-20.

PUSH STARTING (manual transmissions only)

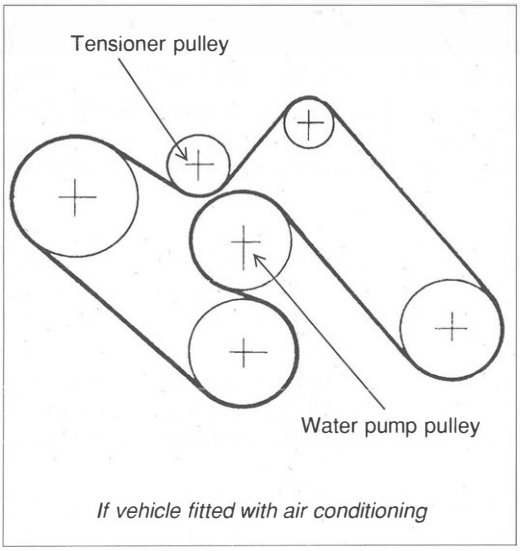
- not applicable to Australian vehicles see note on previous page.

Turn the ignition to 'ON" before you commence the push, place the gear lever in second or third and keep the clutch pedal fully depressed.

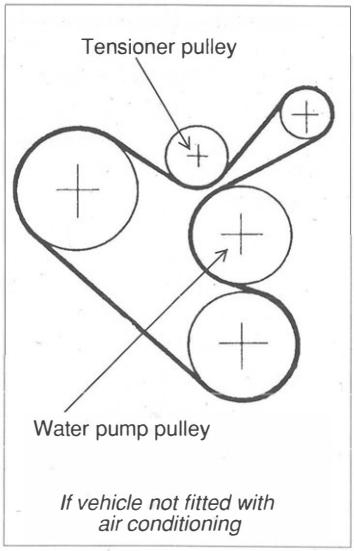
When the vehicle reaches a speed of about 16 km/h, slowly release the clutch pedal to start the engine.

CAUTION: It is not a safe practice to try to start the vehicle by towing it for following reasons:

- When the engine starts, the forward surge could cause the vehicle to run into the towing vehicle.
- Whilst the engine is not running, the supply of power assistance to the brakes is not available. Therefore, increased braking effort will be required to stop the towed vehicle if necessary.



If vehicle fitted with air conditioning



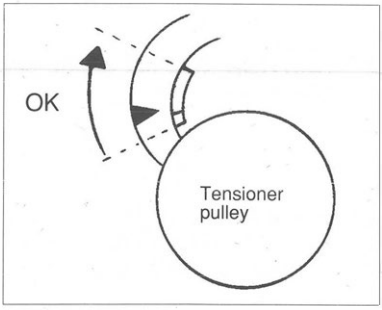
If vehicle not fitted with air conditioning

If the V6 engine accessory drive belt is broken, replacement is as follows:

- Feed the belt over the pulleys as shown - except for the water pump pulley. Ensure the belt is correctly installed over the pulleys before proceeding.
- Put an 18mm ring spanner over the bolt in the centre of the tensioner pulley. Use the spanner to pull the (spring loaded) tensioner pulley upwards.
- Feed the belt around the water pump pulley. Release the spanner slowly.
- Remove the spanner. The belt will automatically adjust when the engine is started.

Removal of the belt is the same as replacement, that is, you must remove belt tension by pulling the tensioner pulley upwards and whilst held up, take off the belt.

Note: If the belt length indicator arrow on the tensioner is in range shown, then the belt length is satisfactory. When the belt length indicator arrow reaches or is below the left hand end of the quadrant, the belt is no longer serviceable and must be replaced.



Chapter 6

Warranty, HoldenWise, HoldenWise Roadside Service Authorised Holden Dealers, Customer Assistance

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6-4	Parts and Accessories Warranty
6-5	Warranty Questions & Answers
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6-21	**Customer Assistance**

Note: Dealership names and addresses are correct at time of printing. They may change from time to time without notice.

NEW VEHICLE WARRANTY CERTIFICATE

General Motors - Holden's Automotive Ltd A.C.N. 006 893 232, hereinafter Holden's, warrants that it will make good without charge, any defect which appears in the vehicle identified in the vehicle identification certificate, found on the inside front cover of this handbook.

Provided, for the Vehicle Warranty

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:

(a) before the vehicle has travelled a distance of 50,000 km or,

(b) within 24 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 24 months of the date when it was first placed into service by the Dealer)

whichever comes first,
AND
for the Powertrain Warranty

the defect has been notified to an authorised Holden Dealer or Service Dealer:

(c) before the vehicle has travelled a distance of 100,000 km or,

(d) within 36 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 36 months of the date when it was first placed into service by the Dealer)

whichever comes first,
AND

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

AND

the Dealer has determined that the defect complained of is one of workmanship and is not caused by

(a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect
(b) operation of the vehicle after it is known to be defective
(c) accident or deliberate act
(d) atmospheric fallout or flood, hail, salt, etc.
(e) failure to carry out proper maintenance service
(f) use of incorrect types and grades of fuel, oil or lubricants
(g) alteration or modification of the vehicle by any party not authorised by Holden's
(h) the fitting of parts or accessories not marketed by Holden's
(i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S, BY REPLACEMENT.

Excluded from the 24/50 Vehicle Warranty are:

defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and services such as engine tuning, brake adjustment, replacement of air/oil/fuel filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

Covered by the 36/100 Powertrain Warranty are:

1. **ENGINE**
   a) **BASIC ENGINE ASSEMBLY**
   Basic engine assembly, intake manifold; exhaust manifold; super charger; turbo charger; intercooler; seals and gaskets; mountings; flywheel; E.F.I. components; carburettor/throttle body; fuel pump; injection pump; vacuum pump; injector nozzles; hoses and pipes for vacuum and EGR and PCV and fuel systems; fluid coupling; water pump.
   b) **EMISSION CONTROL**
   Air pump; air injection manifold; air suction manifold and valve; throttle positioner; modulator; catalytic converter; positive crank case ventilation system; air injection by air suction system; emission control system; exhaust gas re-circulation system.
   c) **ENGINE RELATED COMPUTERS**
   Engine control computer; emission control computer; E.F.I. computer; sensors.
2. **TRANSMISSION**
   Transmission; transaxle; transfer case assembly; torque converter; transmission control computer; mountings; seals and gaskets.
3. **CLUTCH**
   Cover Assembly
4. **FRONT / REAR AXLE**
   Axle Housing, Drive Shaft, Constant Velocity Joint, Propeller Shaft, Axle Hub, Axle Shaft, Bearing, Hub Bolts, Nuts, Oil Seals.
5. **SAFETY RESTRAINT**
   Seat Belts, Sensor Switch, Air Bag, Computer.

Excluded from the 36/100 Powertrain Warranty (but included in the 24/50 Vehicle Warranty) are:

Radiator; heater core; shock absorbers; springs and suspension mounting components; exhaust system; ignition coil/module; distributor; alternator; starter motor; fuel tank; transmission external linkages; wheels; instrumentation switches; spark plug leads plus any other components not specifically listed in Powertrain components shown above.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

Holden's warrants in respect of Holden's Parts and Accessories that it will make good by repair or at its option by replacement any defect occurring in any such Holden's parts and accessories within 12 months from the date of acquisition or in the case of a Holden's part or accessory installed in a vehicle by a Holden Dealer or Service Dealer, within 24 months or before such vehicle has travelled a distance of 50,000 km from the date of installation, whichever first occurs.

Excluded from this warranty are maintenance items such as filters, spark plugs, wiper blades, etc. which require replacement as part of normal vehicle maintenance.

PARTS AND ACCESSORIES WARRANTY EXPLANATION

i ACCESSORIES - NEW VEHICLE

Accessories installed by a Holden Dealer or authorised Service Dealer to the new vehicle at the time of purchase are covered by the Holden's New Vehicle warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

ii PARTS AND ACCESSORIES - INSTALLED DURING NEW VEHICLE WARRANTY PERIOD

Parts and/or accessories installed by the Dealer or authorised Service Dealer during the new vehicle warranty period are covered by the unexpired portion of the new vehicle warranty. After expiry of the new vehicle warranty, the parts and accessories warranty will apply up to 24 months/50,000 km (whichever occurs first) from date of fitment.

iii PARTS AND ACCESSORIES - INSTALLED AFTER EXPIRY OF NEW VEHICLE WARRANTY

Parts and/or accessories installed by the Dealer or Service Dealer after expiration of the new vehicle warranty are covered by the parts and accessories warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

iv PARTS AND ACCESSORIES - PURCHASED AT RETAIL OR TRADE

Parts and/or accessories purchased at trade or retail and installed by other than the Dealer or Service Dealer are warranted for 12 months from date of purchase (parts and accessories only). In these instances it is necessary to preserve proof of sale records to support warranty claims.

v PARTS AND ACCESSORIES WARRANTY EXCLUSIONS

Defects in tyres, these being warranted by their manufacturers, batteries which are covered for 12 months and maintenance service items, such as spark plugs, oil/air/fuel filters, coolant/inhibitor, wiper rubbers, brake pads, linings and discs, clutch linings, refrigerant, drive belts, distributor ignition points, bulbs and fuses, which are warranted against manufacturing defect existing at time of installation. Where this Handbook specifies a schedule for replacement of parts, such parts are covered by parts warranty for the extent for the specified maintenance service interval.

This section is designed to assist you in understanding the Holden's Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden's Warranty Service?

It is the responsibility of the Selling Dealer to provide Holden's Warranty service, therefore you should take your vehicle to the Selling Dealer whenever Holden's Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden's Customer Assistance Service (refer last page of this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden's Warranty Service.

Q 3. What should I do if, in an emergency, Holden's Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden's Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden's Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden's Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's Warranty?

No, these items are not covered. Holden's warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden's New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden's New Vehicle Warranty, but any claim based on those rights should be separately pursued.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden's New Vehicle Warranty. However, the scheduled 1,500 km service specified in chapter 11 of the handbook is provided 'labour free'. Lubricants and parts used for this service will, however, be charged to the owner. This is provided that your vehicle has been operated under *normal* operating conditions (refer page 11-3) and also that no modification (other than a modification made by, or at the direction of, Holden's) has been made to your vehicle. The Maintenance Schedules in this handbook specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay for include:

- ★ Engine tune-up, including spark plugs replacement.
- ★ Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- ★ Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after the 1,500 km service.
- ★ Carbon and sludge removal.
- ★ Maintenance servicing of emission control system devices.
- ★ Adding to (or replacing) lubricants.
- ★ Adding to (or replacing) air conditioning refrigerant, after the 1,500 km service .
- ★ Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- ★ Wheel balancing - after the 1,500 km service.
- ★ Wheel alignment.
- ★ De-dusting or de-glazing of brake linings or pads - after the 1,500 km service.
- ★ Brake lining wear or damage.
- ★ Brake disc pad or disc wear.
- ★ Battery re-charging.
- ★ Paint, bright metal finish and trim, due to normal deterioration.
- ★ Body panel adjustment - after the 1,500 km service.
- ★ Door, or bonnet lock adjustments.
- ★ Glass or channel adjustments - after the 1,500 km service.
- ★ Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 1,500 km service.
- ★ Chipped glass or breakage.
- ★ Torn or damaged floor mats or carpets.
- ★ Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden's New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

Q 7. Are Holden's parts and accessories covered by warranties?

If you buy a Holden's part or accessory from an Authorised Holden Dealer it will be warranted by that Dealer, under the Holden's parts and accessories Warranty, against defects in materials or workmanship for 12 months, from the date of purchase. In the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer, it will be warranted for 24 months or 50,000 km (whichever occurs first) from the date of installation.

Defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and maintenance items such as filters, spark plugs, wiper blades and brake pads/linings require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

Q 8. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty service?

All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden's Customer Assistance Service (refer last page of this chapter) to obtain guidance.

Q 9. How much will I have to pay for the scheduled maintenance services, detailed in Chapter 11 of this handbook?

Page 11-7 provides a list of the suggested labour time, parts and lubricants required to complete each service.

Q 10. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden's ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

ONE FEATURE EVERY CAR MAKER WOULD LOVE TO BE ABLE TO OFFER.

Holden, a lot more than just a car

As you'll soon discover, your new Holden is a lot more than just a car..... because every Holden comes with one very special feature, HoldenWise.

HoldenWise was created to offer Holden owners the best Australia wide customer care system possible. To do this we've drawn on all the technical resources and service skills of Holden's. However, the key to our service is and always will be, people, with over 5,000 Holden service and parts specialists spread across the country. Thanks to them, we can offer HoldenWise Customer care at participating Holden Dealers with complete confidence.

Holden Specialists

HoldenWise technicians have been specially trained by the factory and have the experience in service and parts skills necessary to work on your car. As you can imagine Holdens today are a lot more sophisticated than they used to be, which means specialist service is essential.

Knowing Holdens so well, our technicians know exactly how long each service takes, which is why Holden dealers can offer fixed price servicing.

HoldenWise Fixed Price Servicing

HoldenWise has eliminated one of the big worries about car services, not knowing what the bill will be. Every participating Dealer service centre offers fixed price servicing. You need only ask and you'll be given a quote on how much the job will cost before it's started. So there are no nasty surprises when paying the bill.

Of course, if during the service, a problem is discovered, you'll be telephoned immediately before any more work is done.

You may be comforted to know that all participating Dealer work is covered by a workmanship warranty.

HoldenWise Workmanship Warranty

All services and repairs are covered by a 6 month/10,000 km Dealer warranty on workmanship. If a fault arises during that period, due to the service, your Holden Dealer will fix it. But workmanship isn't the only thing that is guaranteed.

Holden's Parts Warranty

The parts used in HoldenWise services are manufactured and tested to the same high standards as the originals, so Holden quality parts carry the same 24 month/50,000 km warranty when fitted by the Dealer. Naturally the warranty does not apply to normal maintenance parts like oil filters and spark plugs.

Whilst on the subject of parts, how often have you been told you'll have to wait a while until the parts can be found?

Thanks to the HoldenWise network, it's something you're unlikely to encounter at your Holden Dealer.

The HoldenWise Network

Most HoldenWise Dealer service and parts centres are computer linked through to the factory, which means you'll never have to wait an eternity for the right parts to be found.

What's more, with around 350 Dealers nationwide, you'll never be far from the same high standard of service.

Holden Accessories

Holden accessories are designed and approved as an integral part of your vehicle so you know they will fit and function precisely. When installed by the Holden Dealer to your new vehicle, Holden accessories are covered by the Holden's warranty of 24 months or 50,000 km for your added protection.

Customer Assistance

Finally, we suggest you read the last page of this chapter for information on Holden's Customer Assistance Service.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's in its published sales literature, and the Company does not accept any such unauthorised action.

3 YEAR
24 HOUR ROADSIDE SERVICE

OUR COMMITMENT TO YOUR SATISFACTION

HoldenWise Roadside Service is part of the unequalled commitment of Holden's to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing, and now beyond to the open road.

HoldenWise Roadside Service is your key to worry free motoring - one that covers you from your driveway to the open road, Australia-wide.

We hope the need never arises, but if it does, we'll be there to help through HoldenWise Roadside Service.

HOW DOES HOLDENWISE ROADSIDE SERVICE WORK?

When you decide to buy a new Holden, you will have made a wise purchase decision and you will become a member of an exclusive club of Holden owners, covered by a 24 hour a day, 365 day a year, professional service.

HoldenWise Roadside Service is provided by General Motors-Holden's Automotive Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of the Australian Automobile Association) the 'AAA'.

WHICH CARS ARE COVERED BY THE SERVICE?

All new Holden passenger cars registered from November 1, 1992 are covered for 36 months service. These cars include: Holden Caprice, Statesman, Calais, Calibra, Commodore Berlina, SS, S and Executive (excluding Holden ute) and Holden Apollo, Nova and Barina.

HoldenWise Roadside Service is extended to private and business cars, taxis, rental companies, all government and fleet operators.

WHAT WILL HOLDENWISE ROADSIDE SERVICE DO FOR ME?

HoldenWise Roadside Service is designed to get you mobile after your car has become disabled on a constructed road that is trafficable to normal two wheel drive vehicles.

Where permanent repairs are either not possible or practicable, temporary repairs will be carried out, or the vehicle towed.

WHEN DO THE BENEFITS BEGIN?

Cover begins the moment a Holden car is purchased. An Interim Registration card entitles you to immediately receive all the benefits of HoldenWise Roadside Service.

WHERE CAN I GET HOLDENWISE ROADSIDE SERVICE?

The professional service of HoldenWise Roadside Service is available to you at home, or at the roadside, anywhere in Australia, should you need it.

WHAT HAPPENS IF MY CAR NEEDS MAJOR REPAIRS?

In the case of a breakdown where the car cannot be made driveable or where temporary repairs may void the warranty, HoldenWise Roadside Service will provide towing to the nearest Holden Dealer, or if not geographically practicable, to the local 'AAA' constituent service facility. It is the responsibility of the owner to seek Holden's approval before any repairs are undertaken by a non Holden Dealership. This action will ensure the warranty remains valid.

During an after-hours' breakdown and where the metropolitan Holden Dealer or 'AAA' constituent's approved repairer is not open, the car may be towed to any other location nominated by the driver not exceeding 20 kilometres from the point of breakdown.

IS THERE ANY MEMBERSHIP OR JOINING FEE?

No, you will not be required to pay any fees. Every new Holden passenger car owner is eligible for HoldenWise Roadside Service for 36 months.

WHAT WILL HOLDENWISE ROADSIDE SERVICE COST ME?

Materials, fuel and spare parts supplied during the service must be paid for at the time of the service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting the local Holden Dealer.

WHAT HAPPENS IF I SELL MY CAR?

Holdenwise Roadside Service stays with the car, so if you sell your car during the 36 months, it is still eligible for the service. The new owner simply registers for the service by using the form supplied in the member's kit.

ROADSIDE 'ULTRA' - PRESTIGE CARS

Holden Caprice, Statesman, Calais or Calibra receive the additional cover of 'Roadside Ultra'. This additional cover provides the new owner with all the benefits of HoldenWise Roadside Service along with some very valuable extras, including accommodation, alternative transportation, rental car and Australia-wide vehicle recovery.

HSV - HOLDEN SPECIAL VEHICLES

Purchasers of Holden Special Vehicles - Club Sport, Sportswagon, Senator, Senator 5000i, Statesman 5000i, GTS and Maloo automatically qualify for the coveted HSV Gold Lion package. This package provides the Gold Lion Member with all the benefits of HoldenWise Roadside Service and where applicable, the enhancement package 'Roadside Ultra'.

HOW DO I CALL FOR SERVICE?

Simply call **008 817 100**, the HoldenWise toll free number from anywhere in Australia

The HoldenWise Roadside Service Kit contains full details of the service and any limitations that may apply. In the meantime further information is available from the toll free Holden's Customer Assistance Service line, on **008 033 349**.

N.S.W. Metropolitan

ARNCLIFFE Suttons Motors Arncliffe Pty Ltd - 93 Princes Highway
ASHFIELD Muirs Motors (Ashfield) Pty Ltd - 252 Parramatta Road
BALGOWLAH James Langfield Holden - 164 Condamine Street
BLACKTOWN West City Holden - 120~128 Sunnyholt Road
CABRAMATTA John Abrahams Holden - 266~284 Hume Highway
CAMPBELLTOWN Paul Wakeling Holden - Cnr Blaxland & Campbelltown Rds
CASTLE HILL Windsor Road Holden - Cnr Victoria Ave & Windsor Road
CHULLORA Suttons Motors (Chullora) Pty Ltd - Cnr Hume Hwy & Waterloo Road
CROWS NEST New Hunter Holden - 446 Pacific Highway
DEE WHY Peninsula Holden - Cnr May & Mooramba Roads
GORDON Sundell Holden -Cnr 836 Pacific Hwy & McIntyre Street
HOMEBUSH Suttons Motors Homebush Pty Ltd - 112 Parramatta Road
HOMEBUSH Gilbert & Roach Pty Ltd - 167~173 Parramatta Road
LAKEMBA Michael Lyons Holden - 817 Canterbury Road
LIVERPOOL A.C. McGrath & Co Pty Ltd - 411~419 Hume Highway
MIRANDA Greg Ball Holden - 1~3 Kiora Road
NEWPORT Esso Car Care Centre (Mobil) - 340 Barrenjoey Road
PADSTOW Princeton Holden - 19 Davies Road
PARRAMATTA Boyded Parramatta - 65 Church Street
PENNANT HILLS Barry Smith Holden - 351~355 Pennant Hills Road
PENRITH Triway Holdings Pty Ltd - 39~47 Henry Street
ROCKDALE Peter Terry Holden - 571 Princes Hwy
RYDE Hunter Holden - 603~605 Victoria Road
SPRINGWOOD Springwood Holden - 15 Ferguson Road
ST. MARY'S John Young Holden - Cnr Glossop & Harris Streets
WAITARA Suttons Motors Waitara Pty Ltd - 90 Pacific Hwy
WINDSOR Hawkesbury Valley Holden - 18 Macquarie Street

N.S.W. Country

ADELONG Robert Broadhurst Holden - Tumut Street
ALBURY Brian White Holden - 647~657 Dean Street
ARDLETHAN Carr's Engineering - 4 Mirrool Street
ARMIDALE New State Motors - 103 Rusden Street
BALLINA Quayside Motors - Pacific Highway
BARADINE John Farrell & Co. - Wellingon Street
BARHAM Hall's Motors Pty Ltd - 44 Noorong Street
BATHURST Bathurst Motors Pty Ltd - 54 Durham Street
BATLOW Robert Broadhurst Holden - Pioneer Street
BEGA South Coast Holden - 247 Carp Street
BELLINGEN E.H.H. Raymond Pty Ltd - Broadway
BELMONT Challenge Holden - 444 Pacific Highway
BLAYNEY Alan May Automotive Services - 98 Adelaide Street
BOMBALA Delcott Engineering Pty Ltd -Maybe Street
BOOROWA Boowowa Auto Repairs - 40 Marsden Street
BREWARRINA Lukas Holden - Bathurst Street
BROKEN HILL Donlee Motors Pty Ltd - Cnr Galena & Rakow Streets
CANOWINDRA Canowindra Motors - Gaskill Street
CARDIFF Brian Kelly Holden 35~39 MacQuarie Road
CASINO McKinnon Holden - 142 Barker Street
CESSNOCK Geoff Boyd Holden - 173~175 Wollombi Road

COBAR Cobar Motors Pty Ltd - Barton Street
COFF'S HARBOUR Geoff King Holden Cnr Pacific Hwy & Thompson Road
COOLAMON Coolamon Motors - Cowabbie Street
COOMA Summit Holden - 66~70 Sharp Street
COONABARABRAN Alan McWhirter Holden - John Street
COONAMBLE Moody's Motors - 37 Aberford Street
COOTAMUNDRA Jenkins Garage - 111 Wallendoon Street
COROWA R.W.E. Fraser & Co Pty Ltd - 218 Honour Avenue
COWRA Waugoola Motors Pty Ltd - Kendal Street
CROOKWELL Crookwell Autos -114 Goulburn Street
DENILIQUIN Burchfield Bros & Co -112~114 End Street
DORRIGO Phil Noble Motors - 46~48 Hickory Street
DUBBO John Kierath - 54 Bourke Street
DUNGOG Turner Holden - 248 Dowling Street
EDEN Ron Doyle -113 Imlay Street
FINLEY Riverina Garage Finley -104 Murray Street
FORBES Paddison & Co - Cnr Rankin St & Court Lane
GILGANDRA Allan Cooper Holden - 106 Warren Road
GLEN INNES Glen Severn Holden - 167 Grey Street
GLOUCESTER Grahame's Garage Pty Ltd -1 Park Street
GOSFORD Noble Holden - Pacific Highway
GOULBURN Geissler Motors - 279~298 Auburn Street
GRAFTON Ken Casson Holden - 71~ 75 Spring Street
GRENFELL Terry Carroll Motors Pty Ltd - 40 Alexandra Street
GRIFFITH Leo Franco Holden -164~166 Yambil Street
GULARGAMBONE Gulargambone Motors - Bourbah Street
GUNNEDAH Namoi Valley Motors - 48 Barber Street
GUNNING Bailey's Garage Pty Ltd - Yass Street
GUYRA Burgess Garage Pty Ltd - 131~143 Bradley Street
HARDEN Ginty & O'Leary - Cnr Station & Albury Streets
HAY Royce Curtis Motors - 168 Lachlan Street
HOLBROOK Lieschke Motors Pty Ltd - Albury Street
INVERELL Gaukroger Sales Pty Ltd - Vivian Street
JERILDERIE Jerilderie Motors - Jerilderie Street
KANDOS Chrisfield Holden - 11 Angus Street
KATOOMBA Katoomba Holden - 136 Great Western Highway
KEMPSEY Thoroughgood Motors - 118~132 Belgrave Street
KIAMA Glen Fulton Holden - 35~41 Collins Street
KYOGLE O & A Holden - 128~134 Summerland Way
LEETON John Ryan Holden - 47 Pine Street
LISMORE John Chant Motors Pty Ltd - 21~27 Carrington Street
MACKSVILLE Eastland Auto Centre - 18~22 Cooper Street
MACLEAN O'Halloran Motors - 175 River Street
MAITLAND Heritage Holden - 557~567 High Street
MOREE Keith Haddad Holden - Cnr Boston & Heber Streets
MORUYA Surfair Holden - 88 Vulcan Street
MOSS VALE Vagg & Partners Holden - 160 -162 Argyle Street
MULLUMBIMBY Tony Carsburg Holden - 2 Argyle Street
MUDGEE Ross Granata Motors - 47~55 Market Street
MURWILLUMBAH Tweed Motors Murwillumbah - 29 Prospero Street
MUSWELLBROOK Upper Hunter Motors Pty Ltd - 116 Bridge Street
NARRABRI Allan Cooper Holden - 181 Maitland Street

NARRANDERA C. & S. Coelli - 6 Boundary Road
NARROMINE L.E. Stanley Pty Ltd - Dandaloo Street
NEWCASTLE Young & Green Pty Ltd - 745 Hunter Street
NOWRA Glendon Motors Holden - 301~313 Princes Highway
ORANGE Canobolas Holden - 348 Summer Street
PARKES Go Motors of Parkes - Cnr Mitchell & Clarinda Streets
PEAK HILL S.Leary & Sons Pty Ltd - Mingelo Street
PORT MACQUARIE Todd Holden - 16~20 Clarence Street
QUIRINDI Browning Motors - 82 Henry Street
SCONE Upper Hunter Motors (Scone) - 91 Kelly Street
SINGLETON Lancaster Holden - 80 John Street
TAMWORTH Kensells Holden - Cnr Bourke St & Kable Ave
TAREE Hardes Auto House - 61 Manning Street
TEMORA Rod Lovering Holden - 2 Stockinbingal Road
TENTERFIELD Sexton & Green (Sales & Service) Pty Ltd -148 Rouse Street
TORONTO Young & Green (Toronto) Pty Ltd - Carey Street
TUMBARUMBA Broadhurst Autos - Albury Street
TUMUT Nancarrow Holden - 35 Fitzroy Street
TWEED HEADS Tweed Motors Pty Ltd - 75~79 Pacific Highway
ULLADULLA Johnston Holden - 150 Princes Highway
WAGGA Wagga Motors Pty Ltd - 32 Dobney Avenue
WALCHA Bowden's Garage Pty Ltd - Derby Street
WALGETT Walgett Garage Pty Ltd - 81 Wee Waa Street
WALLA WALLA D.E. Lieschke & Son Pty Ltd - Commercial Street
WARIALDA Roger Moore - Hope Street
WARILLA Wilson's Warilla Pty Ltd - 29 Shellharbour Road
WARREN Fuller Bros - Dubbo Street
WELLINGTON Gersbach's Garage Pty Ltd - 92 Lee Street
WEST WYALONG West Wyalong Motors - 183 Main Street
WOLLONGONG Dwyers City Holden - 31~33 Crown Street
WYONG W.M. Holden - Pacific Highway
YASS Bill Nesbitt Holden - 221 Comur Street
YOUNG Harden & Geelan Holden - 48 Boorowa Street

A.C.T.

BELCONNEN Gerald Slaven Holden - Josephson Street
BRADDON Beazley & Bruce - 44 Mort Street
PHILLIP Commonwealth Motors Pty Ltd - 158 Melrose Drive

Vic. Metropolitan

BERWICK Barry Bourke Holden - 755 Princes Highway
BUNDOORA Watson Holden - 413 Grimshaw Street
BURWOOD Penfold Holden - 63 Burwood Road
CAULFIELD Booran Holden - 1234 Glenhuntly Road
CHELSEA Harrison Holden - 370 Nepean Highway
CHELTENHAM Booran Holden - 1212 Nepean Highway
DANDENONG Daryl Shave Holden - 25 Lonsdale Street
ELSTERNWICK Reg Hunt Holden - 77 Nepean Highway
ESSENDON Preston Motors (Essendon) Pty Ltd - 205~211 Keilor Road
FAWKNER Mantello Holden - 1263 Sydney Road
FERNTREE GULLY Neilson Holden F.T.G. - 980 Burwood Highway
FOOTSCRAY Alan Mance Holden - 435 Barkly Street
FRANKSTON Noel Gould Holden - 140 Dandenong Road
GEELONG R & B Smith Holden - 510 Moorabool Street
GEELONG Winter & Taylor (Sales) Pty Ltd - 23 Cavendish Street
GLEN WAVERLEY Geoff Brady Holden - 565~577 Springvale Road
HASTINGS Westernport Holden - 843 Frankston~Flinders Road
LILYDALE Noel Dight Holden - 344 Main Street
MORNINGTON John Collins Holden - 976 Nepean Highway
OAKLEIGH Garry & Warren Smith - 1575 Dandenong Road
PRESTON Ralph D'Silva Holden - 573-603 High Street
RINGWOOD Patterson Cheney Holden - 45~57 Maroondah Highway
SOUTH MELBOURNE Patterson Cheney Holden - 132 Sturt Street
SOUTH YARRA Penfold Holden - 681 Chapel Street
SUNSHINE Kevin Dennis Holden - 272 Ballarat Road
WERRIBEE Ballan Holden - Princes Highway
WEST MELBOURNE Reg Hunt Holden - 577 King Street

Vic. Country

ALEXANDRA Alexandra Tyre & Hire - 79 Grant Street
ARARAT David Reid Motors - High Street
BAIRNSDALE The Big Garage - 199 Main Street
BALLARAT Peter Amor Motors - 2~26 Mair Street
BENALLA Arnott's Motors - 88~90 Bridge Street
BENDIGO Ron Poyser Holden - Cnr High & Myrtle Streets
BIRCHIP R.L. & C.J. Bales - 38 Cumming Avenue
BOORT Jaron Motors - 55 Godfrey Street
CAMPERDOWN Camperdown Auto Parts - 96 Manifold Street
CASTERTON Coxons Autos - 139 Henty Street
CASTLEMAINE Terry Scully Motors - Barker Street
CHARLTON K.V. Charlton - 70 High Street
COBRAM Neville Mustica Motors - Murray Valley Hwy
COHUNA Humphrey Motors Pty Ltd - 13~15 Market Street
COLAC Parker Bros Motors Co - 224 Murray Street
CORRYONG Boers Motors - 88~90 Hanson Street
DAYLESFORD K.R. Little Pty Ltd - Vincent Street
DIMBOOLA Westerfield Motors Pty Ltd - 64 Lloyd Street
DONALD O.A. Shilton & Sons Pty Ltd - 5 Wood Street
ECHUCA Echuca Motors - 148 Murray Valley Highway
EUROA Croxford Holden - 41 Clifton Street

FOSTER Ray Dower Motors - 78 Main Street
HAMILTON Peter Sandow Motors Pty Ltd -261 Gray Street
HOPETOUN Hopetoun Motors - 78 Lascelles Street
HORSHAM Ivan Morrow Motors Pty Ltd - 22 O'Callaghans Street
KANIVA Kaniva Motors - 82 Commercial Street
KOOWEERUP Gray Blakey Holden - Station Street
KORUMBURRA Peter Dunlevie Holden - 42 Commercial Street
KYABRAM D'Alberto Holden - 60 McEwen Road
KYNETON Mollison Motors Pty Ltd - 167 Mollison Street
LEONGATHA Gleeson Holden - 37~43 Bair Street
MAFFRA Knight Paterson Holden - Johnson Street
MANSFIELD Christopher & Kirley Automotive Services - Early Street
MARYBOROUGH Graham Jacka Holden - 35 Nolan Street
MILDURA Stuart & Harrison (Sales) Pty Ltd - 24~32 Deakin Avenue
MIRBOO NORTH Ridgeway Motors - 106 Ridgeway Road
MORTLAKE W. Christian (Mortlake) Pty Ltd - 107 Dunlop Street
MURRAYVILLE Peers Motors - McKenzie Street
NATHALIA BHB Motors - 6 Blake Street
NHILL Ivan Morrow Motors Pty Ltd - 71~73 Nelson Street
NULLAWIL Nullawil Motors & General Engineers - Calder Highway
ORBOST Merlin Motors - Stanley Street
PORTLAND Reynolds Holden - Henty Highway
QUAMBATOOK Quambatook Auto Services - 32 Gutherie Street
ROCHESTER Bruce Hocking Motors Pty Ltd - 71 Moore Street
RUTHERGLEN Jasper Bros Pty Ltd - 62 Main Street
SALE Keith Boyd Holden - 273 York Street
SEA LAKE Paddy Smith Holden - Calder Highway
SEYMOUR Neil Beer Holden - 49 Emily Street
SHEPPARTON Parker Bros. Auto Co. - Melbourne Road
STAWELL Tonkin Motors - 71~73 Main Street
TALLANGATTA Crispin Motors - 21 Towong Street
TIMBOON Timboon Motors - Bailey Street
TRARALGON Colin Watson Holden - Princes Highway
UNDERBOOL A.J. Gloster & Sons - Cotter Street
WANGARATTA Alan Capp (New Cars) Pty Ltd - Tone Road
WARBURTON Col McKenzie Holden - Main Street
WARRACKNABEAL Amor Motors Aubrey Truck Sales - 33 Woolcock Street
WARRAGUL Vin Rowe Holden - 3 Endeavour Street
WARRNAMBOOL Callaghan Motors Pty Ltd - 133~137 Fairy Street
WONTHAGGI J.P. Holden - 2 Murray Street
YARRAM Graham Helleren Motors Pty Ltd - Bland Street
YARRAWONGA Pigdons Pty Ltd - Belmore Street

Tas.

BURNIE Motors Burnie - 84~89 Marine Terrace
DEVONPORT Motors Devonport - Victoria Parade
HOBART Motors Pty Ltd - 179 MacQuarie Street
KING ISLAND King Island Motors Pty Ltd - Netherby Road, Currie
LAUNCESTON Motors Launceston - 93~95 Elizabeth Street
SMITHTON Motors Pty Ltd - 116 Nelson Road
ULVERSTONE Motors Pty Ltd - 99 Reibey Street

Qld. Metropolitian

ALBION Bill Harrison Car Sales - Frodsham Street & Crosby Road
ASPLEY Zupps (Aspley) -1442 Gympie Road
CAPALABA Oldfield Holden - 103 Redland Bay Road
INDOOROOPILLY Westpoint Holden - 40 Moggill Road
IPSWICH Ross Llewellyn Holden - 246 Brisbane Road
MOOROOKA John Sivyer Holden - 1060 Ipswich Road
MT. GRAVATT Zupps Motors Pty Ltd - 1310 Logan Road
NEWSTEAD Eagers Retail Pty Ltd - 95 Breakfast Creek Road
NUNDAH Eagers (Northside) - 1319 Sandgate Road
PETRIE North Pine Motors - 1059 Gympie Road
REDCLIFFE Village Holden - 425 Elizabeth Avenue
SPRINGWOOD Motorama Holden - 3455 Pacific Highway
WINDSOR Leach Holden - 143 Newmarket Road
WOOLLOONGABBA Armstrong Holden - 73 Ipswich Road
WYNNUM Doug Barton Holden - 200 Tingal Road

Qld. Country

ATHERTON Redding Motors Pty Ltd - 2 Cook Street
AYR Honeycombes Sales & Service - 213~217 Queen Street
BEAUDESERT Lawson Holden - 57 Brisbane Street
BOWEN McDermott Holden - 98 Herbert Street
BUNDABERG Ross Gray Holden - Takalvan Street
CABOOLTURE Becham Holden - Bribie Island Road
CAIRNS Ireland Holden - 227~233 Mulgrave Road
CALOUNDRA Drinnan Holden - Caloundra Road
CHARLEVILLE Alan Dobbin Holden - 129 Alfred Street
CHARTERS TOWERS Peters Holden - 57 Mosman Street
CHINCHILLA Ainsworth Motors & Machinery Pty Ltd - 55 Chinchilla Street
CLONCURRY Cloncurry Motors - 59 Scarr Street
CUNNAMULLA Tims Motors - 56 King Street
CROWS NEST Dennis Nissen Motors - 14 William Street
DALBY Johnson's Holden - 36 Drayton Street
EMERALD Orion Agriculture Supplies Pty Ltd - Clermont Street
GATTON Gatton Auto Centre - 67 Railway Street
GLADSTONE Andersons Auto City - 56 Yarroon Street
GYMPIE Madills - 35 Mellor Street
INGHAM Origlasso Motors - 99 Lannercost Street
INNISFAIL I.C. Taylor Pty Ltd - 117 Edith Street
JULIA CREEK Julia Creek Motors Pty Ltd - Burke Street

KILCOY Hobart's Garage - 58 Mary Street
KINGAROY John Dundas Pty Ltd - 38 King Street
LAIDLEY Buhse's Garage Pty Ltd - 5 Spicer Street
LONGREACH Longreach Motors - 33 Swan Street
MACKAY Pioneer Holden - Cnr Gordon & Wellington Streets
MAROOCHYDORE Sunco Holden - Wises Road
MARYBOROUGH Whitaker Holden - 109~111 March Street
MOUNT ISA Barkly Motors Pty Ltd - Marian Street
MURGON Clifton Motors - McAllister Street
NAMBOUR Kallenbach Motors - 139 Howard Street
NANANGO Nanango Motors Pty Ltd - 72~74 Drayton Street
NOOSA HEADS Gilbert Motors Pty Ltd - Cnr Cooroy Noosa Rd & Coral Tree
PROSERPINE Crossley Car Whitsunday Pty Ltd - 162~164 Main Street
QUILPIE Quality Motors - Boonkai Street
ROCKHAMPTON Lawrence's - 327 Richardson Road
ROMA Maranoa Multi Agencies - Bowen Street
SOUTHPORT Lockhart Holden - Cnr Nerang Road & Olsen Avenue
SPRINGSURE Springsure Motors - Eclipse Street
ST. GEORGE Halpin Motors - 39~41 Grey Street
STANTHORPE Central Motors - 42 Maryland Street
TOOWOOMBA Eagers Retail Pty Ltd - Cnr James & Hume Streets
TOWNSVILLE Tony Ireland Holden - 87~91 Charters Towers Road
TULLY Island Coast Holden - 12 Richardson Street
WARWICK Deighton Motors Pty Ltd - Grafton Street
WINTON Gillespie Motor Dealers Pty Ltd - Elderslie Street

N.T.

ALICE SPRINGS Kittle Bros (Alice Springs) Pty Ltd - Cnr Wills & Railway Terrace
DARWIN Kerry Holden - 21~25 Stuart Highway
KATHERINE Master Motors - 1130 Victoria Highway

S.A. Metropolitian

ADELAIDE City Holden - 203~221 Grenfell Street
ELIZABETH Peter Page Holden - Elizabeth Way
MALVERN Claridge Holden - 361~367 Unley Road
PORT ADELAIDE Smiths of Port Adelaide - 271 Commercial Road
REYNELLA Southgate Holden - 49~59 Main South Road
SOMERTON PARK Ellers Holden - 278 Brighton Road
THEBARTON United Holden - 1 Port Road
VALLEY VIEW Plaza Holden - 817~839 North East Road

S.A. Country

BALAKLAVA Balaklava Motors - 4 Wallace Street
BERRI Rosenthal Bros Pty Ltd - Vaughan Terrace
CEDUNA Beck Motors Pty Ltd - Poynton Street
CLARE Brian Holmes Holden - 7 Old North Road
CLEVE Herbert Motors Pty Ltd - Rudall Road
CRYSTAL BROOK Newitt's - 26 Brandis Street
CUMMINS Trigg & Wedd - 3 Umlauf Street
GAWLER Steinhage Holden - Cnr Murray & Bridge Sts
KADINA J.H. Rosewarne Pty Ltd - Graves Street
KEITH Farmers Centre - McBain Street
KINGSCOTE Roberts Motors - Telegraph Road
KINGSTON Lecornu's Service Garage - Agnes Street
LOXTON Flight Motors Pty Ltd - Bookpurnong Terrace
MAITLAND Maitland Motors Pty Ltd - 58 Robert Street
MALLALA Curnow's Garage Pty Ltd - Balaklava Road
MENINGIE Peter Hood Holden - Cnr Princes Highway & Coonalpyn Road
MILLICENT Dennis Cowling Holden - 98 George Street
MT. BARKER Gilbert Motors (Mt. Barker) Pty Ltd - 57 Adelaide Road
MT. GAMBIER O.G. Roberts & Co - Jubilee Highway West
MURRAY BRIDGE Dutton Motors Pty Ltd - 7 Adelaide Road
NARACOORTE Kingcraig Motors Pty Ltd - 158~164 Smith Street
PORT AUGUSTA Ken Feltus Holden - 38 Stirling Road
PORT LINCOLN City Motors - King Street
PORT PIRIE Spencer Holden - 50 Ellen Street
RENMARK Rosenthal Motors Pty Ltd - Ral Ral Avenue
STRATHALBYN Gilbert Motors (Strathalbyn) Pty Ltd - High Street
TANUNDA E.Hage & Co Pty Ltd - 50 Murray Street
VICTOR HARBOR Southern Holden - 5 Victoria Street
WAIKERIE Riverside Holden - 6 Crush Terrace
WHYALLA Mitchell Holden - 64 Essington Lewis Avenue
YANKALILLA Martin Motors Pty Ltd - Main Street
YORKETOWN Southway Holden - 7 Minalaton Road

W.A. Metropolitan

CANNINGTON Brian Gardner Holden - 1308 Albany Hwy
FREMANTLE Shacks Holden - 64 Queen Victoria Street
GOSNELLS Lance Gibbons Holden - 2325 Albany Highway
MELVILLE Melville Motors Pty Ltd - 532~540 Canning Highway
MIDLAND Goldy Holden - 161 Great Eastern Highway
MORLEY Metro Motors Pty Ltd - 212 Walter Road
NAVAL BASE Shacks Cockburn - 15 Rockingham Road
OSBORNE PARK North City Holden - Cnr Scarborough Beach Rd & Harborne St
PERTH City Motors - 505 Newcastle Street
VICTORIA PARK Young's Holden - 529 Albany Highway
WANNEROO Phoenix Holden - 5 Berriman Drive

W.A. Country

ALBANY Manley Stanwell Holden - 92~98 Earl Street
BRIDGETOWN Kordics Bridgetown - Hampton Street
BROOKTON Coote Motors - Robinson Road
BROOME Norwest Holden - McPherson Street
BUNBURY Bunbury Holden - 27 Denning Road
BUSSELTON Fennessy Holden - 2~4 Bussell Hwy
CARNAMAH T & H Walton Stores Pty Ltd - Robertson Street
CARNARVON North West Autos - 175 Robinson Street
COLLIE Station Motors - 102 Throssell Street
CORRIGIN Farmpower - Kunjin Road
CRANBROOK Cranbrook Motors - 11~13 Gathorne Street
DALWALLINU Reid & Inglis - Johnson Street
ESPERANCE Dempster Holden - Norseman Road
GERALDTON Youngs Motors - Cathedral Avenue
GNOWANGERUP G.S. Hendry & Co Pty Ltd - Yougenup Street
KALGOORLIE Kyle Motors - 114 Boulder Road
KARRATHA Moxham Holden- Lot 1952 Balmoral Road
KATANNING Edwards Holden - 159 Clive Street
KELLERBERRIN Dowding Motors - 1 Mitchell Street
KUNUNURRA Elgee Automotive & Diesel Services - Mango Street
MANJIMUP Kordics - Rose Street
MERREDIN Carson's of Merredin - 112 Barrack Street
MOORA Frank Lewis Holden - Gardiner Street
NAREMBEEN Aquip Machinery - 20 Churchill Avenue
NORTHAM Withnell Motors - 58 Fitzgerald Street
PORT HEDLAND Leete Motors - 26~28 Anderson Street
WAGIN Marley White & Co - Tudor Street
WONGAN HILLS Agro Machinery Pty Ltd - Fenton Street
WYALKATCHEM J.S. Rimmer & Sons - Railway Terrace

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the Holden's Customer Assistance office is at your disposal.

The Holden's Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 646 5466. Outside the Melbourne Metropolitan area, the number is 008 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 797 7341

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager

Holden's Customer Assistance Services

GPO Box 548D

Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & Business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.)
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

Chapter 7

Weekly Checks

Page

7-2 Miscellaneous checks
7-2 Service manuals
7-2 Seat belts
7-3 Check locations
7-4 Engine oil level check
7-5 Engine oil consumption notes
7-6 Engine coolant level check
7-7 Automatic trans. fluid level check
7-8 Washer fluid level check
7-9 Brake fluid level check
7-10 Power steering fluid level check
7-11 Tyre air pressure
7-12 Tyres (general)
7-14 Battery
7-15 Fuses
7-16 Fusible links
7-17 Bulb replacement
7-21 Trolley jack locations

As well as taking your vehicle to be serviced (refer Chapter 11) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

1. Fuse box ..... page 7-15
2. Plastic engine coolant tank ..... page 7-6
3. Windscreen washer fluid tank ..... page 7-8
4. Brake fluid reservoir ..... page 7-9
5. Automatic transmission dipstick ..... page 7-7
6. Engine oil cap ..... page 7-4
7. Engine oil dipstick ..... page 7-4
8. Battery ..... page 7-14
9. Power steering fluid reservoir ..... page 7-10

The locations of these parts are shown on the facing page.

The following checks should also be regularly carried out to ensure proper safety and dependability of your vehicle.

- that all exterior lights are working and that their appropriate interior indicators light up when in operation.
- mirrors and glass are clean and not scratched.
- automatic transmission T-bar indicator correctly lines up next to the gear selected.
- the aim of water on the windscreen or tailgate and condition of the wipers
- demister operates.
- horn works
- all seat belt condition and operation and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted..

SERVICE MANUALS

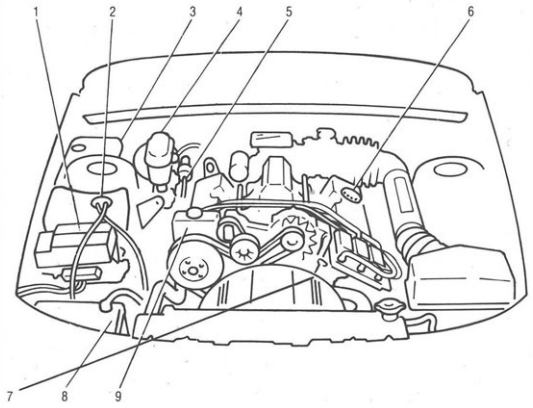
General Motors-Holden's Automotive Limited also publishes various service manuals which are available from your Dealer.

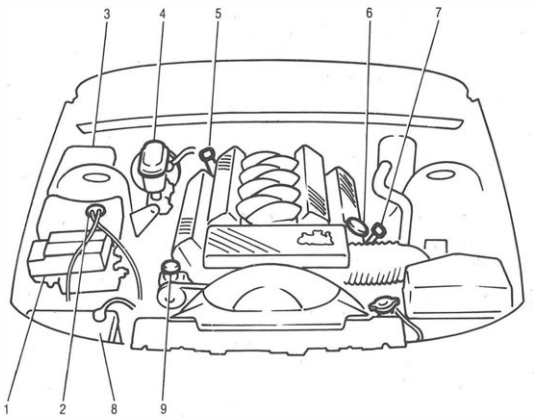
MAINTENANCE OF SEAT BELTS

Check seat belt condition and operation regularly...give it a sharp tug to make sure that it will 'lock' if necessary and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer page 11-6. Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

Caution: Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

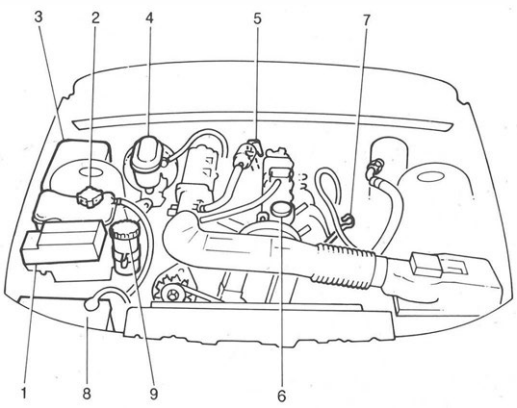
V6 engine





V8 engine

L4 (export) engine



It is the owner's responsibility to check the oil level weekly. The best time to check the engine oil level is when the oil is warm, such as during a refuelling stop.

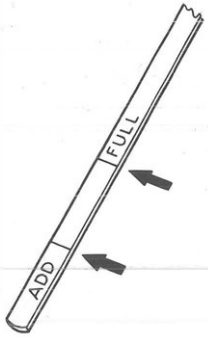
To check the oil level accurately, the vehicle must be on level ground. After stopping the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick. Refer to the diagram on page 7-3 for location.

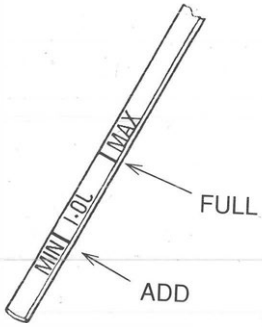
Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it.

The oil level should be maintained between the two marks, neither going above the FULL mark nor under the ADD mark. Remember to reinsert the dipstick firmly after taking the reading.

V6 and V8 engines



L4 engines



If you need to add oil, use SF or SG grade engine oil 20W/40 (or 15W/40 for prolonged use in snow areas). To add oil, turn the oil cap (refer page 7-3 for location) anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil. When correct, screw the cap back on tightly and replace the dipstick.

If you check the oil level when the oil is cold do not run the engine first. The cold oil will not drain back into the oil pan fast enough to give a true oil level reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may be detrimental to the operation of your vehicle.

Every internal combustion engine uses a certain amount of oil, especially during the running-in period. Your engine is dependant on oil to lubricate the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine, apart from mechanical malfunctions such as worn pistons, rings, valve stems and guides. These factors are: the way in which the vehicle is operated, the quality and grade of oil, the oil level, and dilution of the oil.

★ OPERATION OF THE VEHICLE

Sustained high engine speeds will increase oil consumption because higher speeds increase engine temperature which lowers oil viscosity thus allowing more oil to reach the combustion chamber. Towing a heavy load will also result in increased oil consumption due to increased engine temperature and hence lower oil viscosity.

★ QUALITY AND GRADE OF OIL

Oil viscosity is a significant factor in oil consumption, therefore if you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

★ OIL LEVEL

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full crankcase allows the reciprocating parts of an engine to splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

★ DILUTION

Probably the most prevalent complaint of oil consumption comes from the motorist whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic coolant tank, refer page 7-3 for location.

V8 and V6 engines

When the engine is cold the coolant level should be at or above the *MINIMUM* mark on the plastic coolant tank.

After the vehicle has been driven and the engine is at normal operating temperature, the level should be somewhere between half full and the *MAXIMUM* mark.

L4 engines

When the engine is cold the coolant level should be at the *cold* mark on the plastic coolant tank.

After the vehicle has been driven and the engine is at normal operating temperature, the level should be somewhere between the *cold* mark and the coolant tank centre weld joint.

The LONG LIFE COOLANT in your vehicle conforms to Holden's specification number HN 2043. This can be purchased as:

M40236 (1 litre) M40307 (5 litres) M40238 (20 litres)

If the plastic coolant tank requires topping up, first premix a solution of 50% LONG LIFE COOLANT and 50% water. Undo the cap on the top of the plastic coolant tank, add the premixed solution and secure the cap.

Failure to use the specific Holden's coolant or maintain the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily in the cooling system until the correct Holden's long life coolant is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified long life coolant contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This long life coolant also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -37° C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system you should see your Holden Dealer for a cooling system check.

L4 engines only: if a lot of fluid needs to be added to the cooling system, then air must be purged from the system. This requires special tools and/or procedures and it is recommended that the work be done by your Holden Dealer.

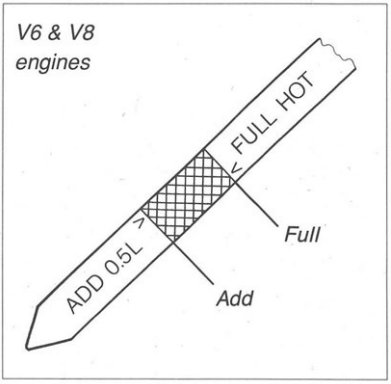
CAUTION: Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

Do not remove the radiator cap or plastic coolant tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Refer to page 5-10 if engine overheats.

The level of fluid in the automatic transmission (if fitted) should be checked weekly, by looking at the fluid level on the dipstick. Refer to the diagram on page 7-3 for location. Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

The fluid should be checked after the vehicle has been driven for at least 24 kilometres - so that the fluid is warm.



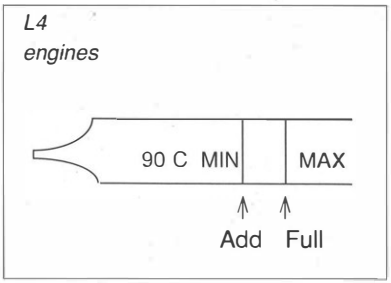
The vehicle must be standing on level ground with the engine running.

The gear shift selector should be in PARK and the park brake applied.

Remove the dipstick, wipe it clean with a clean cloth or paper and reinsert it fully. Now remove it again and read the fluid level.

If the level is below the Add mark, add fluid until the level is between the Full and Add marks.

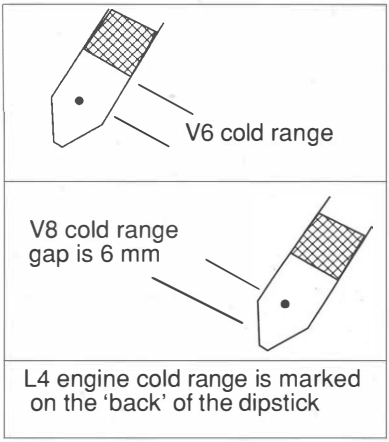
The level should NEVER read over the *FULL HOT* mark, so be careful not to add too much.



If adding fluid, use only DEXRON*IID or IIE AUTOMATIC TRANSMISSION FLUID. Add the fluid in the same opening as the dipstick is stored in and wait one minute for the oil to settle. Again check the level with the dipstick and add further fluid if necessary. Remember to always replace the dipstick.

NOTE: If fluid has to be added often, there may be a problem or leak - and you should see your Holden Dealer.

NOTE: The cold markings on the dipstick should only be used when initially filling the transmission after the fluid has been completely drained. When checking "cold", start the engine and move the T-bar through the selector range and back to *PARK*. Let the engine idle for 3 minutes in PARK and then check the fluid level using the *cold* markings on the dipstick. The cold level check is strictly temporary. Therefore a final check, using the hot method described previously should be done after the vehicle has been driven for at least 10 kilometres.



* DEXRON is a registered trademark of General Motors Corporation.

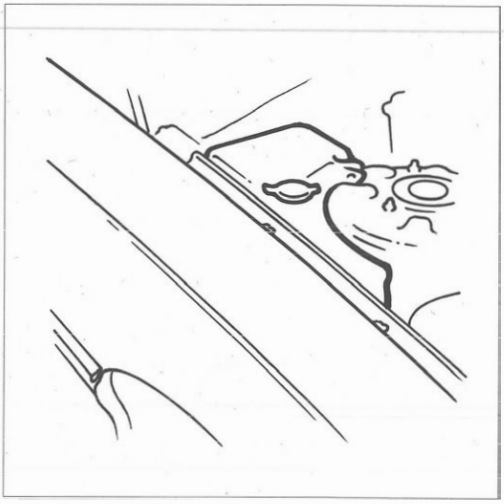
WINDSCREEN WASHER FLUID

The washer fluid is constantly used, so the level should be checked weekly and topped up as required.

Maintain the fluid at the level indicated on the outside of the container.

For a crystal clear windscreen, the correct amount of Optikleen (part number M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.



TAILGATE WASHER FLUID (wagon only)

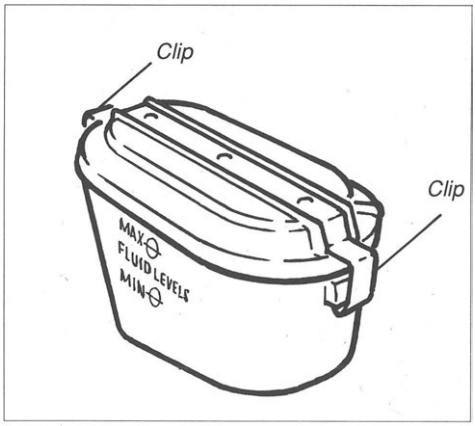
A separate container, in the rear load area, holds the tailgate washer fluid.

Open the tailgate and roll the carpet forward.

14" wheels - unclip the spare wheel cover, then lift cover up. 15" wheels - unscrew the centre retaining nut and lift cover up.

The washer container will now be visible, next to the spare wheel. Check and add as for windscreen washer fluid.

The brake fluid level in the master cylinder should be checked regularly in conjunction with checking the oil and coolant levels. The fluid level, visible through the "see through" master cylinder (see page 7-3 for location) should be maintained between the MIN and MAX level markings. If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the boiling point of the fluid as well as increasing risk of corrosion of brake components.



If fluid needs to be added, first wipe clean the sides of the top cover. Then, unclip and lift off the top cover. Top up with heavy duty brake fluid which meets Holden's specification number HN 1796. This can be purchased as Holden's part number 92026651. Remember to secure the cap at each end.

Note: Use only new brake fluid. Use of an old, used or inferior brake fluid may endanger the functioning of the brake system.

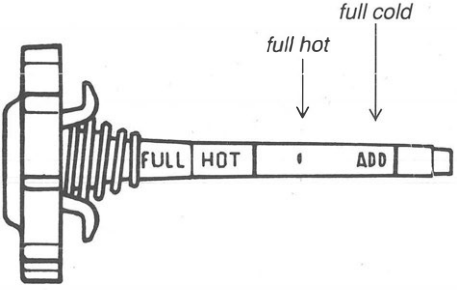
If the master cylinder requires constant topping up it could indicate that a malfunction exists, in which case it should immediately be brought to the attention of your Holden Dealer.

The level should be checked after the vehicle has been driven for a while, so that the fluid is warm. A convenient time to do this is when stopping for petrol.

Refer page 7-3 for location of the reservoir. Unscrew and carefully remove the cap on top of the reservoir. The dipstick is attached to the cap.

The fluid level should be maintained at or below the HOT mark.

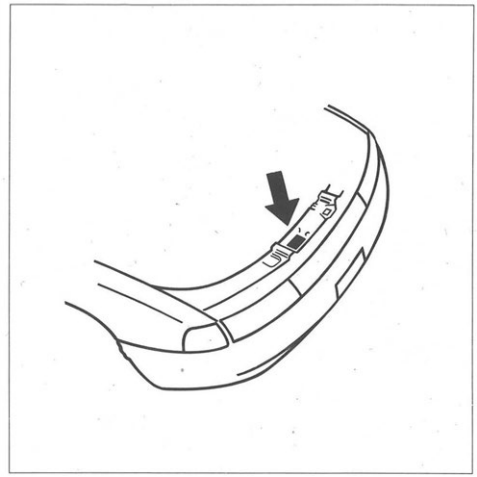
If checking the level when the vehicle has not been driven for a while, then the level should be at or below the COLD mark.



If fluid needs to be added, use DEXRON* IID or IIE. Do not over fill. Remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer to have the power steering system checked.

**DEXRON is a registered trade mark of General Motors Corporation.*

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your vehicle will handle at it's best - check the pressures weekly. For constant long distance or rough road travelling, daily checking is recommended.

For correct pressure for your tyres, refer to the tyre placard on your vehicle. This is located under the bonnet (on the radiator support panel).

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the tyres are cold (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to put back any valve dust caps or extensions, if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

To maximise the protection of tyres on vehicles operating for prolonged times over rough roads (particularly in outback conditions) it is recommended that the cold tyre inflation pressure recommended for maximum load condition as shown on the tyre placard is used.

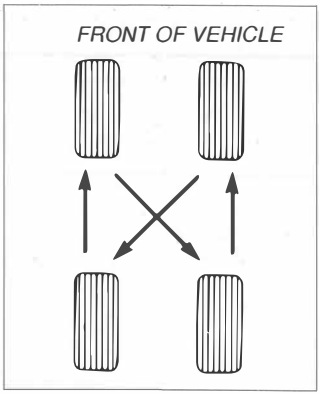
Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to "pull" to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check carried out by your Holden Dealer.

Tyre inspection and rotation



Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your vehicle to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated it is recommended that the balance be checked at the same time.

Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your warranty as well as your motor vehicle insurance policy.

Tyre traction

CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speeds during rainstorms, when roads are slushy or if the road has standing water or puddles.
2. Replace tyres when tread wear indicators are visible.
3. Check that tyres are properly inflated.

Tyre replacement and repair

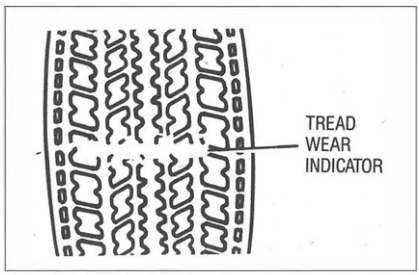
CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your vehicle's handling could be affected and may result in loss of control.

When replacing tyres you should use the same size, load rating and construction type as the original tyres on your vehicle. Refer to tyre placard on your vehicle for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:



1. The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The original equipment tyres fitted to your vehicle incorporate built-in tread wear indicators. When only 1·5 mm of tread remains, these indicators show as plain bars across the tread pattern at regular intervals around the tyre. In the interest of safety, replacement should not be delayed.
2. The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds. Therefore, their use is not recommended.

The fluid level of the battery will be checked for you when you take your vehicle to be serviced by your Holden Dealer. If your vehicle is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewelry, ring and metal watchbands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

When checking the battery level, make sure the engine is not running. Each of the six cells must be individually checked. Use distilled water, as required, to keep the level just below the bottom of each split tube. DO NOT OVER FILL.

Refer page 5-12 for emergency starting when the battery is flat.

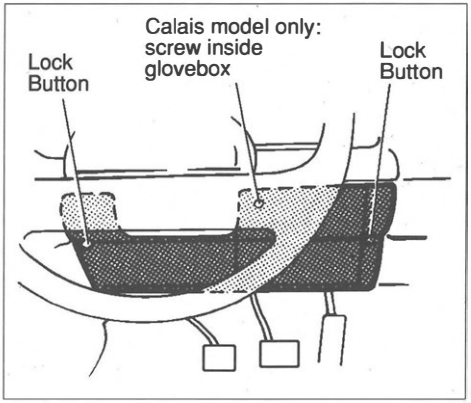
Battery replacement

Low maintenance, 12 volt	V6 and L4 engines = Exide SP350D 75 min /350 amp. V8 engine = Exide SP400D 80 min /400 amp.

The main fuse panel is in the instrument panel, on the lower, right side of the steering column. To gain access to the fuses, undo the panel under the steering column.

Calais models only: first undo the screw inside the driver's side glovebox.

Undo the two lock buttons (on either side of the steering column) a quarter of a turn with a small coin, or similar. The right hand lock button rotates clockwise, the left, anti-clockwise. The hinged panel will then drop down to reveal the fuses.



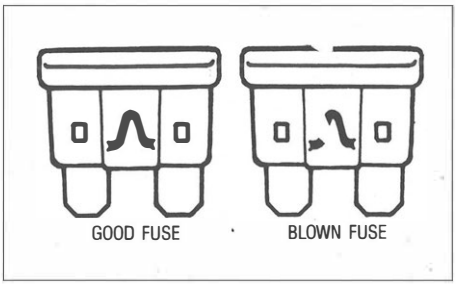
In the open position, the slot in the head of both lock buttons is vertical. Prior to closing the panel, rotate both lock buttons so that the slot in the lock buttons are horizontal. The panel can then be closed and the lock buttons simply pushed firmly until they click into place.....do not rotate.

Calais models only: Remember to replace the screw inside the driver's side glovebox.

The separate, fuse/relay box is located in the engine compartment, refer page 7-3 for location. Access to the fuses is gained by removing the snap on cover. Ensure that the cover fits over the splash guard tray securely.

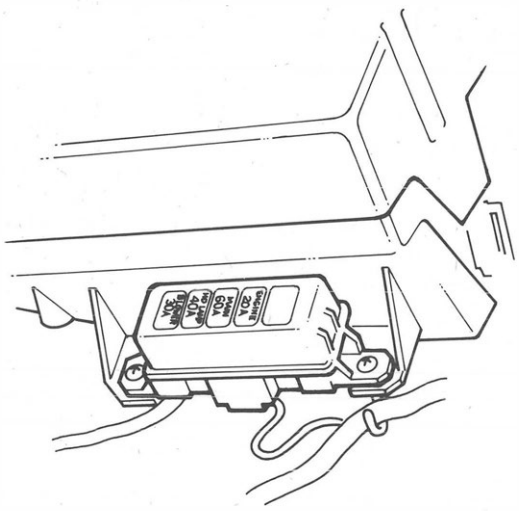
Both covers have diagrams showing the layout of the fuses and the amperage required.

Fuses used are of the blade type with the amperage values moulded into the head. To determine whether or not a fuse is "blown", it is necessary to pull out the suspect fuse and examine the element in the fuse. If the element is broken (see illustration), replace the fuse with one of the same amperage value.



If after replacing a burnt-out fuse the new fuse also burns out, this indicates that the fuse is still overloaded. The cause of the fault should be located and rectified, preferably by a Holden Dealer.

CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar device to replace a fuse as it could damage electrical components and may cause a fire hazard to your vehicle.



The main wiring harnesses in your vehicle are protected from electrical overload by fusible links incorporated into the wiring system.

In case of a short circuit, the link will melt internally thus disconnecting the battery. The fusible link panel is located in front of the fuse/relay box inside the engine compartment. After removing the snap on cover, the plug-in fusible links may be removed by hand, except for the centre (main) fusible link. To remove the main link, remove the two screws securing the housing to the bracket, lift up the housing and remove the upper bolt from the rear of the housing. The main, fusible link can then be removed.

Note: The battery must be disconnected when servicing the main centre fusible link.

For more detail, refer to the Service Manual of your vehicle, or if still unsure, see your Holden Dealer. Remember to always replace a fusible link with one of the same amperage. If the replacement fusible link also burns out, this indicates that the fuse is still overloaded. The cause of the fault should be located and rectified, preferably by a Holden Dealer.

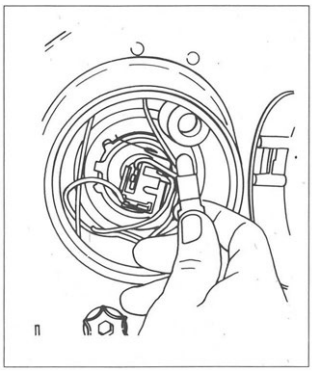
HEADLIGHTS (60/55 watts)

Do not touch bulbs or reflectors with bare hands. Greasy fingers will cause stains which evaporate - eventually resulting in a dull reflector. Grease spots on Halogen bulbs will, within a short time lead to bulb failures. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or white spirits.

1. Open bonnet. Turn dust cap anti-clockwise and remove from rear of headlight assembly.
2. Pull off wiring harness connector from rear of bulb.
3. Unclip spring retainer and pivot clear of bulb, then remove bulb.
4. Refit new bulb into place, refit spring retainer, wiring harness connector and dust cap. Ensure bulb is seated correctly in reflector.
5. Re-aim headlights. Detailed procedures for headlight aiming are given in the relevant service manual for your vehicle. However, because headlight aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

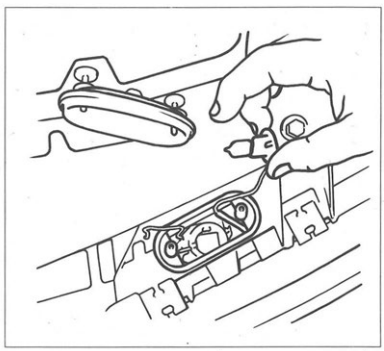
FRONT PARK LIGHTS (5 watts)

1. Remove dust cap from rear of headlight.
2. Remove park light bulb holder (located next to headlight bulb) by pulling straight out of housing.
3. Remove park light bulb by pulling straight out of holder.
4. Insert new bulb, reinstall holder and dust cap.



INBOARD HIGH BEAM (55 watts)

1. Open the bonnet. Located on the top of the headlight housing is a dust cap, secured by two screws. Remove the two screws and the dust cap.
2. Using a pair of pointed nose pliers, pull earth lead (black wire) connector from bulb holder.
3. Disconnect spring retainer and pivot clear of bulb.
4. Pull out bulb far enough to expose electrical lead connector. Disconnect connector and remove bulb assembly.

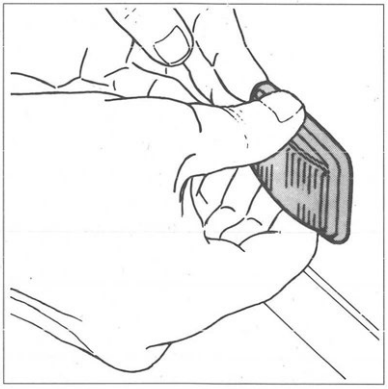


5. Connect new bulb and electrical lead, install bulb assembly into correct locating notches, re-connect spring retainer. Refit earth lead connector and dust cap.

FRONT, TURN SIGNAL (21 watts)

1. Open bonnet. Twist to release bulb holder from behind turn signal assembly.
2. Lightly depress bulb and remove in a twisting motion out of the holder.
3. Insert new bulb and reinstall bulb holder.

SIDE TURN SIGNAL (5 watts)



The lens housing is removed by hand. Grasp the lens housing at the rear, push forwards and then pull away from the vehicle body. Separate the bulb holder from the lens assembly by first rotating the bulb holder anti-clockwise.

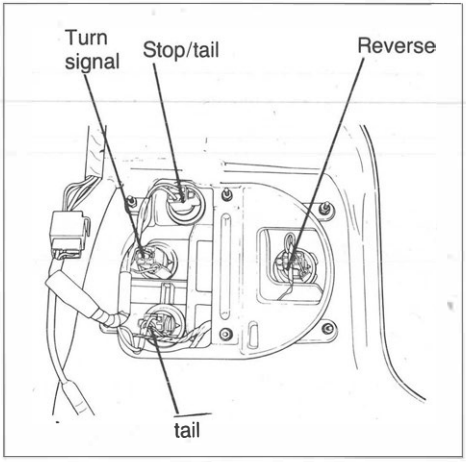
The bulb pulls straight out of the bulb holder. Insert new bulb into bulb holder. Install bulb holder into lens housing. Note that bulb holder only fits into lens housing in one way. Therefore, keep turning bulb holder clockwise until it fits into place and can be tightened.

When reinserting the lens housing, first locate the front of the lens into the fender opening before pushing the rear of the lens in towards the vehicle body.

Sedan:

REAR TURN SIGNAL (21 w), STOP/TAIL (21/5 w), REVERSE (21 w), TAIL (21/5w)

1. From inside the boot, remove the respective bulb socket by twisting anti-clockwise.
2. Depress bulb and rotate to remove from socket.
3. Insert new bulb into socket, and reinstall socket.



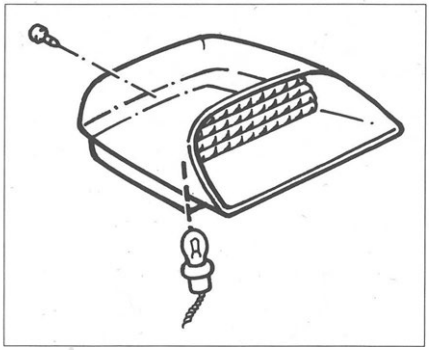
Wagon & ute:

REAR TURN SIGNAL(21w), STOP/TAIL(21/5w), REVERSE(21w)

1. Unscrew the four screws and remove the lens.
2. Slightly depress respective bulb and rotate to remove from socket.

Bulb socket sequence from top downwards is: Turn signal, stop/tail, reverse.

Sedan - REAR, HIGH MOUNTED STOP LIGHT (18 watts)



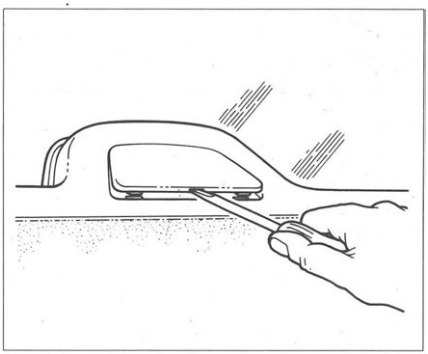
Remove the screw securing the cover of the rear mounted stop light. Lift cover off. From underneath, twist bulb holder anti-clockwise. Pull bulb holder out of stop lamp.

Bulb pulls straight out of bulb holder.

Install new bulb in bulb holder, refit bulb holder back into stop lamp, replace cover and screw.

Note that if your vehicle has a high stop lamp in the rear spoiler it is recommended that bulb replacement be carried out by your Holden Dealer.

Wagon -REAR, HIGH MOUNTED STOP LIGHT (18 watts)



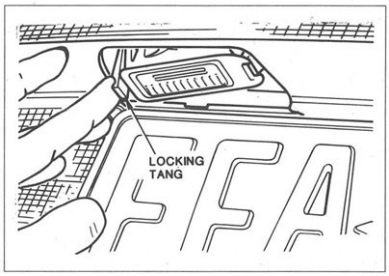
Open tailgate and remove cover at rear of high level stop light.

From inside cavity of the stop light, twist bulb holder anti-clockwise. Pull bulb holder out of the cavity.

Bulb pulls straight out of bulb holder.

Install new bulb in bulb holder, refit holder in stop light cavity. Replace cover.

Sedan - NUMBER PLATE (5 watts)



The two number plate bulbs are above the licence plate, in the boot lid.

Open the boot. Push in the tab at the left of the lens housing and pull lens housing down. Turn bulb holder anti-clockwise and remove bulb holder from lens housing. Pull bulb straight out of bulb holder.

Push new bulb into bulb holder, install bulb holder into lens housing. Feed wiring back into cavity. Fit right side of lens housing in boot lid and then push lens housing into place.

Wagon - NUMBER PLATE (5 watts)

Two bulbs are located at either side of the tailgate lock cylinder, above the licence plate. To replace the bulb, undo the two screws at either side of the lens. The bulb can be pulled straight out. Install new bulb, replace lens and refit screws.

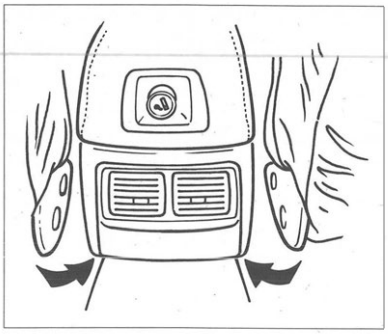
Utility - NUMBER PLATE (5 watts)

Undo the two screws at either side of the lens assembly. Remove front half of lens assembly. The bulb pulls straight out.

FOOTWELL LIGHTS (2.7 watts if fitted)

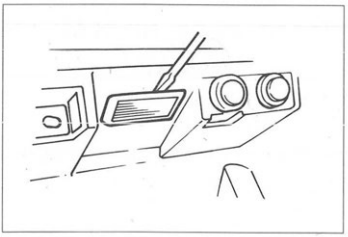
Bulbs (including their green cover) simply pull straight out and push back in.

There is one located above the brake pedal, one behind the passenger's side glovebox and two located at the rear of the console.



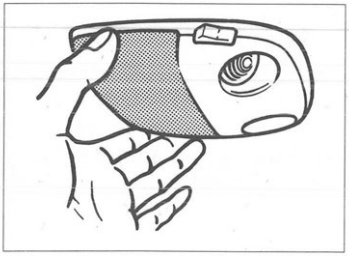
PASSENGER'S SIDE GLOVEBOX - CALAIS ONLY (10 watts), GLOVEBOX - EXCEPT CALAIS (5 watts), CONSOLE BIN (5 watts if fitted), BOOT (10 watts) WAGON LOAD AREA (10 watts)

Gently prise away the lens housing with a screwdriver. Pull tab holding bulb (opposite end to wiring) backwards and pull bulb out. To install new bulb, first pull tab backwards. When new bulb is in place feed wiring back into cavity and push lens housing back into place.



INTERIOR DOME (10 watts), FRONT READING (5 watts if fitted)

With your hand, gently prise away the snap-on lens. The interior dome bulbs can then be pulled straight out by hand. Front reading light bulbs must be rotated, before pulling out.



REAR READING LIGHT (10 watts if fitted)

Squeeze in tab at rear of lens housing and remove lens housing. Pull tab holding bulb backwards and pull bulb out. To install new bulb. first pull tab backwards. When new bulb is in place push lens housing back into place.

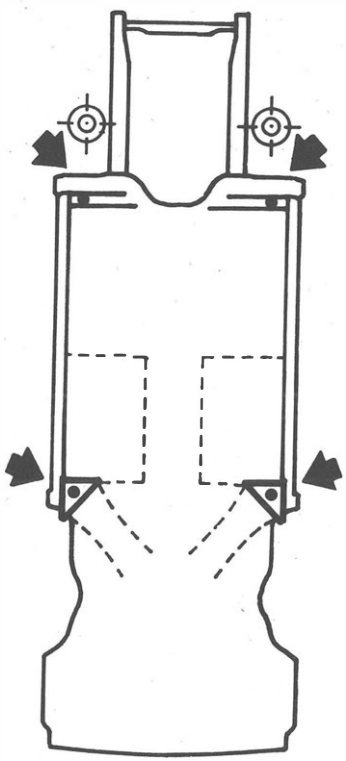
INSTRUMENT PANEL and FOG LIGHTS (if fitted)

Refer to instructions given in the relevant Service Manual for your vehicle, or preferably have the work carried out at your Holden Dealership.

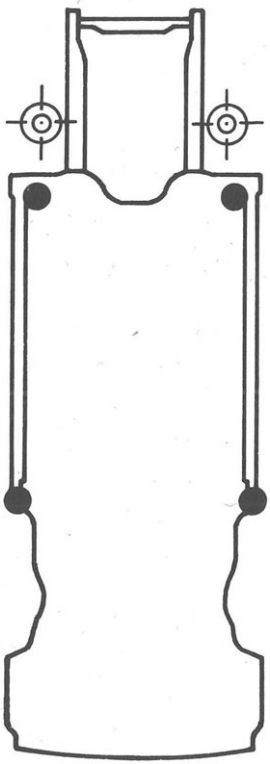
You should always use the jack locations shown on page 5-7 when using the original jack supplied with your vehicle. This jack has been designed to correctly and safely lift your vehicle. Also note the precautions on page 5-6 prior to lifting.

However, if using a trolley jack to raise the vehicle, it is important that the jack be positioned under the suspension cross member or hoist pad locations. DO NOT JACK UNDER THE SUSPENSION CONTROL ARM. The vehicle should always be supported by jack stands when raised.

Note that there are different locations for the rear lifting position, depending on whether your vehicle is fitted with or without IRS (Independent Rear Suspension). IRS is fitted as standard to Calais.



If IRS fitted (i.e. IRS is fitted as standard to Calais and SS models)



If IRS *not* fitted

Chapter 8

Loading the Vehicle & Towing

Page

8-2 Loading the vehicle

8-3 Roof racks, bull bars, superlift shock absorbers

8-4 Towing

8-5 Towing equipment

8-6 Towing tips and precautions

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts. The recommended carrying capacity of your vehicle is:

SEDAN - 5 occupants plus 68 kg luggage (408 kg load in total).

UTILITY - 720 kg total load (including the weight of passengers).

WAGON - 5 occupants plus 91 kg luggage (431 kg load in total).

- When Holden's accessory 3rd seat is fitted, the load capacity of the wagon is modified as follows:

  One passenger for each seat belt, up to 8 years old (or 26 kg) in 3rd seat plus 7 kg luggage.

  Note that luggage in the vehicle should be stowed securely behind the 3rd seat or on a roof rack.

If you load your vehicle other than to the above recommendations then you should ensure that the MAXIMUM REAR AXLE LOAD and the MAXIMUM VEHICLE LOAD (see below) are not exceeded.

KERB WEIGHT

The kerb weights shown in the chart on page 8-3 are for the weight of a standard unloaded vehicle, without any options, but with a full tank of fuel.

TOW BAR BALL LOAD

The tow bar ball *load* is the weight on the tow bar ball, when the packed caravan (or trailer) is hitched.

Ideally, the ball load should be 10% of the packed caravan weight. This can be adjusted by correctly packing the contents of the caravan.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired.

When towing, the weight of the ball load must be included from both the maximum rear axle load and the G.V.M. It should be treated as luggage.

(G.V.M.) MAXIMUM VEHICLE LOAD

The maximum vehicle load is the maximum that a vehicle is allowed to weigh when fully loaded. This must include luggage, goods, passengers, roof rack load and a full tank of fuel. If you are towing, then the weight of the tow bar ball load must also be included. The maximum, allowable weight for your vehicle is shown in the chart on page 8-3.

MAXIMUM REAR AXLE LOAD

The maximum allowable rear axle load for your vehicle is shown on the following chart.

Remember to take the tow bar ball load into account when determining the rear axle load.

WEIGHTS (kg)

	V6 engine			V8 engine			L4 engine		
	Kerb	Max. Rear Axle	GVM	Kerb	Max. Rear Axle	GVM	Kerb	Max Rear Axle	GVM
Executive sedan	1332	945	1804	1411	946	1872	1248	941	1656
Executive wagon	1380	1003	1874	1459	1004	1942	1296	999	1727
Berlina sedan	1389	954	1797	1457	956	1870	1303	950	1711
Berlina wagon	1454	1014	1890	1522	1016	1958	1368	1010	1799
Calais	1420	970	1828	1488	972	1896	1334	966	1742
Utility	1353	1260	2063*	1420	1260	2130*	N/A	N/A	N/A

* for *exact* GVM for different utility models, refer to the compliance plate on your vehicle.

ROOF RACK LOADS

Roof rack loads alter the handling of a vehicle, due to a change in the centre of gravity. When carrying loads on the roof rack avoid abrupt swerving or sharp steering. The load (which should not exceed 68 kg) should be evenly distributed.

The weight on the roof rack must be included when working out the maximum vehicle load (G.V.M.) - the roof rack load should be treated as luggage.

BOOSTER SPRINGS AND SUPERLIFT SHOCK ABSORBERS

The use of booster springs or superlift shock absorbers DOES NOT increase the carrying capacity of the vehicle. Maximum loads for your vehicle must NOT be exceeded, otherwise, overloading of axle parts may shorten the life of your vehicle.

Superlift shock absorbers do, however, allow adjustment of the vehicle's height, so that you have improved handling and better ground clearance in rough terrain when the vehicle is heavily loaded.

Utility owners note: Superlift shock absorbers should *not* be fitted utilities, as these are already fitted with a load sensing valve. The superlift shock absorbers will lift up the vehicle, thereby upsetting the load sensing valve which, in turn, reduces brake effectiveness.

CAUTION: Do not drive with superlift shock absorbers inflated when the vehicle is unladen, as vehicle handling is affected. The vehicle should be at normal level. Always ensure that superlift air pressures are within the minimum and maximum pressures shown on the tag attached to the air pressure valve.

"ADD-ON" EQUIPMENT - front of vehicle

Owners intending to fit bull bars etc. should first check with their Holden Dealer. Depending on the weight of the equipment, it may be necessary to fit heavier duty springs and struts to help avoid potential damage to the front underside of the vehicle when driving on rough road conditions.

Note: Vehicles that have been fitted with the optional Country Pack will have these heavy duty front suspension parts fitted as part of the package.

MUD FLAPS

It is strongly recommended to have mud flaps fitted if the vehicle is driven extensively on unsealed roads.

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

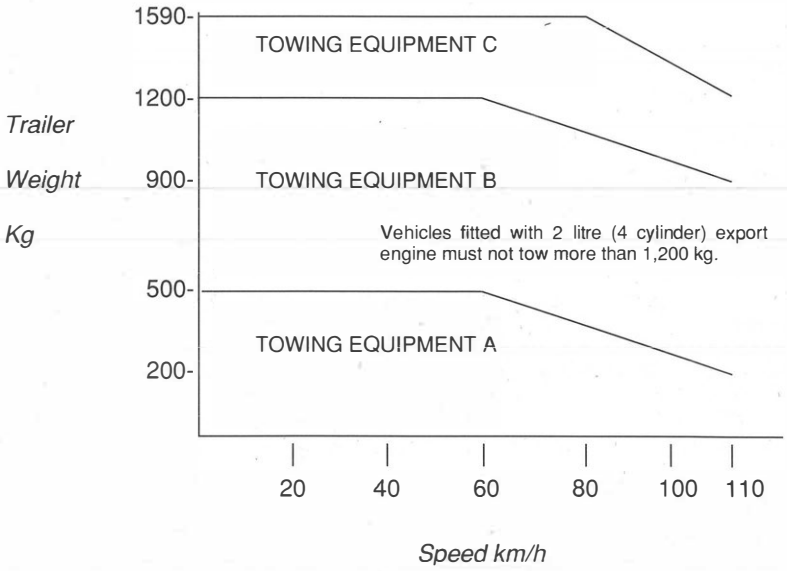
Determine which category your vehicle will fall into from Table 1, then refer to Table 2 to determine which equipment is specified as essential and which equipment is preferable to your needs.

Your vehicle will fall into either category A, B, or C depending on travelling speed and trailer (or caravan) weight. Each category requires extra equipment to be fitted to your vehicle to enable it to perform satisfactorily. Vehicles fitted with 4 cylinder export engines must not tow more than 1,200 kg.

It will be seen that loads should be reduced when driving at higher speeds.

Never exceed the loads given in Table 1 for the particular class of towing equipment fitted to your vehicle.

TABLE 1



Note: Holden's towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden's will not accept liability for defects occurring in towing equipment not marketed by Holden's or for defects in the vehicle arising from the use of such equipment.

TABLE 2

A	essential	Holden's trailer wiring Harness Package
	essential	Holden's 1,200 kg rating Tow Bar Package (sedan, wagon or utility, as applicable)
	preferable	Holden's Automatic Transmission oil cooler (if vehicle fitted with automatic transmission)
	preferable	Holden's steering oil cooler (V6 & V8 engines), availability T.B.A.
B	essential	Holden's trailer wiring harness package
	essential	Holden's 1,200 kg rating Tow Bar Package (sedan, wagon or utility as applicable)
	essential	Load Equalizer Hitch when towball loads are in excess of 75 kg (not available from Holden's)
	essential	Trailer Brakes
	preferable	Automatic Transmission
	preferable	Holden's Automatic Transmission oil cooler (if vehicle fitted with automatic transmission
	essential	Holden's steering oil cooler (V6 & V8 engines), availability T.B.A.
C	essential	Holden's Trailer Wiring Harness Package
	essential	Holden's 1590 kg rating Tow Bar Package (sedan, wagon or utility, as applicable).
	essential	Heavy Duty Tow Bar Equalizer Hitch complying with SAE J684E or F Class 2
	essential	Trailer Brakes - Electric or Hydraulic
	preferable	Automatic Transmission
	essential	Holden's Automatic Transmission Oil Cooler (if vehicle fitted with automatic transmission)
	preferable	Heavy duty battery
	preferable	Country Pack suspension (sedan or wagon only)
	essential	Holden's Body Side Brace Package (sedan only)
	essential	Holden's steering oil cooler (V6 & V8 engines), availability T.B.A.

Holden's products are available through Holden Dealers. "Heavy duty" radiators and generators are standard on all VP models.

If the trailer uses electrical current from the vehicle towing it (in excess of lights, stop lights and turn signals), then a heavy duty battery is specified.

Tow bar ball load (see page 8-2 for explanation) must not exceed 120 kg for category A and B and must not exceed 160 kg for category C, even if a Load Equalizer Hitch (required when ball load exceeds 75 kg) is used.

SAFE TOWING TIPS

Your vehicle will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.

Have your vehicle correctly maintained and serviced.

Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.

You should have an extended-arm mirror on both sides of your vehicle.

Headlights may need re-aiming after the loaded caravan has been hitched, particularly if a load equalizing hitch is not used.

Use a lower gear, rather than your brakes when descending steep hills.

If your caravan or trailer moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.

Automatic transmission only: To stop the transmission constantly changing between 3rd and 4th gear, it is recommended that the T-bar be in the "D" position (rather than overdrive) when towing. However, the driver may select overdrive under *ideal* conditions, i.e. driving at a constant speed on flat roads.

TOWING PRECAUTIONS

- When towing, your tyres should be inflated to the maximum recommended pressure. Refer to the tyre placard under the bonnet, on the radiator support panel.
- Do not use axle-mounted hitches. They can cause damage to the axle housing, wheel bearings, wheels and tyres.
- Trailer brakes are required on trailers over 500 kg loaded weight (except where State Laws may specify a lower limit). Some States specify that the load being towed must not exceed the weight of the car.
- It is permissible to tap into the rear brake system with a signal generating unit using not more than 0.21 cc of fluid displacement during the operation of the brakes. It must not be fitted to the front brake system.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the car.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.

RUNNING-IN WHEN TOWING

It is recommended that you drive your new vehicle for at least 1,500 km before towing. If you must tow before this do not exceed 80 km/h. The same applies if you have a new or reconditioned engine, transmission or rear axle.

VEHICLE MAINTENANCE

More frequent vehicle maintenance is required when using your vehicle to pull a trailer or caravan, refer page 11-3. If an automatic transmission is fitted, the transmission fluid will need to be changed every 12 months or 20,000 km.

Chapter 9

Cleaning

Page

INTERIOR CLEANING

9-2 Upholstery
9-3 Vinyl (P.V.C.) fabrics
9-3 Cloth fabrics
9-3 Carpet
9-3 Seat belts
9-3 Interior glass

EXTERIOR CLEANING

9-4 Washing
9-5 Removing grease, oil & tar spots
9-6 Polishing
9-6 Paintwork inspection
9-6 Wheels and tyres
9-7 Exterior glass
9-8 List of appearance care & maintenance materials

CAUTION: Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, gasoline or naphtha for any cleaning purpose.

Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

CARE AND CLEANING OF UPHOLSTERY

Dust and dirt which accumulate on upholstery should be removed every few weeks - more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine as accurately as possible:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent upon the colour, structure and general appearance of the upholstery.

It is essential that stains be removed as soon as possible after they have been made. If they are allowed to remain on the fabric for any length of time they very often become oxidised or set, and removal becomes difficult, if not impossible.

The use of Holden's spot and stain remover will assist in the above, refer page 9-8.

CLEANING P.V.C. COATED FABRICS

Vinyl (P.V.C.) coated fabrics are used for seating, headlinings and auxiliary trimming. The grades used vary according to their function. P.V.C. fabrics are generally made by coating fabric with synthetic resins. Care of P.V.C. fabrics is a relatively simple but important matter. The surface should be wiped over with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern, the following procedure is recommended.

1. Using luke warm water and soap, or Holden's Velour Fabric and Vinyl Cleaner, work up thick suds on a piece of cheesecloth, and apply to the surface. A soft bristle brush can be used to remove stubborn stains or dirt embedded in the grain of the material.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth.The above cleaning instructions also apply to the rubber floor mats.

CLEANING CLOTH TRIM

Where the seats in your vehicle are upholstered with cloth, the following instructions should be observed.

- Most loose dirt and dust can be removed by a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- If normal soiling should take place it is recommended that the fabric be sponged lightly with warm water containing a detergent and a small amount of ammonia. The fabric should then be rubbed lightly, and if necessary, sponged again to remove anything stubborn. Soak up excess fluid with a dry cloth. Holden's Velour Fabric and Vinyl Cleaner may be used to advantage, but should be used sparingly.

CLEANING CARPET

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using Holden's Velour Fabric and Vinyl Cleaner, clean approximately one square foot at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

CLEANING SEAT BELTS

Cleaning of seat belts can be carried out by using a mild non-abrasive soap and luke warm water. After washing be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts since this may severely weaken them.

CLEANING INTERIOR GLASS

The interior glass area of the vehicle should be cleaned using Holden's Glass Cleaner with a clean soft cloth. Care must be taken when cleaning inside the rear window so as not to damage the demister.

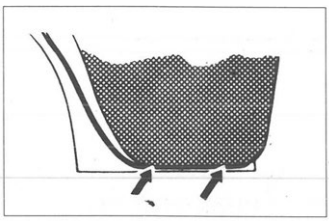
Never use abrasive cleaners on any vehicle glass, as they may cause scratches.

CAUTION: Care should be taken when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an clear area ahead, until brake performance returns to normal.

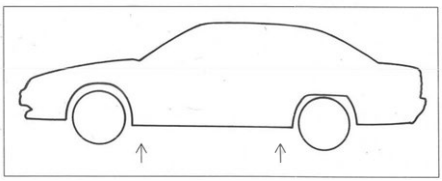
Before washing the paintwork on your vehicle, check that the door drain holes and rocker sill vents are not blocked. The underbody should also be cleaned to remove deposits of mud and corrosive products.

UNDERBODY CLEANING The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of the underbody parts, such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets and park brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the vehicle is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least once each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

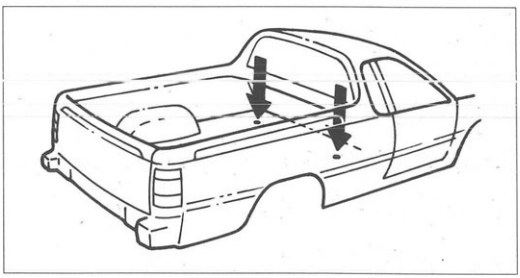
DOOR DRAIN HOLES It is important that the drain holes at the bottom of the door panels are checked to make sure that they are free of dirt and foreign material, which could trap water inside the panels. Clogged drain holes can be cleaned with a small screwdriver and these drain holes are angled back towards the rear of the vehicle.



ROCKER SILL VENTS In all models there are vents which should be regularly checked to see that they are clear of blockage, using a blunt ended instrument. These vents are formed as cutouts in the sheet metal along the bottom edge of the rocker sill.



FLOOR DRAIN HOLES (Ute). Two drain holes are located on the tonneau floor, behind the cabin. Regular cleaning with a hose or similar will ensure that the holes remain clear, so that water can drain away from the loading area.



WASHING PAINTWORK

The acrylic lacquer finish on your vehicle is superior to ordinary lacquers and will stay bright and new looking for years with little or no polishing, provided it is given a reasonable amount of regular washing to keep off road grime.

Washing not only removes dirt and road grime that settles on the vehicle, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the vehicle. These should be removed without delay, using an effective removal agent.

REGULAR WASHING

If the vehicle is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the vehicle to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the vehicle under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the vehicle after washing.

Holden's Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer page 9-8.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

REMOVING GREASE, OIL AND TAR SPOTS

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

Warnings

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to acrylic finishes. When purchasing a cleaner, polish or wax ensure that it can be safely used on an acrylic finish.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

INSECT SPOTS

Insect spots on the paint finished parts of the vehicle can be easily washed off by using a solution containing 1 litre of water in which approximately 110 grams of baking soda (Bicarbonate of Soda) has been dissolved. Flush the washed parts with clean water.

POLISHING

Even though the acrylic lacquer finish on your vehicle is more durable than ordinary lacquers, under certain conditions you may wish to polish your vehicle to provide maximum protection against road dirt and industrial fall out etc. Also, the application of a polish may be required to remove foreign matter which is not normally removed by washing. Over a period of time, such foreign matter may build up on the paint surface, to the detriment of its overall appearance.

DO NOT ATTEMPT TO APPLY A POLISH WITHOUT FIRST WASHING TO REMOVE LOOSE GRIT, SURFACE DIRT, DUST OR GREASE ETC.

Painted plastic bumpers or body side mouldings may be cleaned and polished according to the instructions given above for the paintwork.

PAINTWORK INSPECTION

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or break-down in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the vehicle gives a very high degree of protection against the weather, but is should be realised that wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

TYRES

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres.

New tyre look can be restored using Holden's Tyre and Bumper Shine, refer page 9-8.

ALLOY WHEELS

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. Holden's Wheel Cleaner can be used for cleaning all alloy wheels. Do not use abrasive cleaners on highly polished alloy wheels as they could damage the protective coating.

GLASS CLEANING - GENERAL

Special care should be taken to avoid scratching the glass when cleaning. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden's Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

WINDSCREEN

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible in wiping the surface. Old wiper blades can cause windscreen scratching and therefore should be inspected regularly and replaced as necessary.

Abrasive materials must never be used to clean glass as they can cause scratches. A scratched windscreen will impair vision, particularly at night. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft lint free cloth or chamois.

It is recommended that Holden's Optikleen be added to the windscreen washer reservoir to assist the wipers in keeping the windscreen clean whilst driving.

WIPER BLADES

Oil and road scum thrown up onto the windscreen will cause smearing when the wipers are switched on, as dirt then transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and cleaning with Holden's Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM.

If in dry conditions, the wiper blades are used to clean dust and dirt from the windscreen always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Should the wiper blades be frozen to the windscreen, they must be lifted off and freed by hand before switching on the wipers.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M37432	390 x 370 mm	Synthetic Chamois	Absorbs water and cleans paint and glass surfaces.
M39828	500 ml	Polymer Glaze Polish	Seals in a deep, lustrous, glazed finish. Long life protection from from oxidation, salt and weather damage.
M39829	500 ml	Easy Gloss Polish	Contains silicones and hard working waxes for extra shine.
M39846	250 g	Deep Shine Glaze Polish	Contains Carnuba wax for a mirror finish.
M39833	250 g	Cutting Polish	Removes oxidised paint and built-up road grime, leaving a smooth surface to apply polish
M39830	500 ml	Wash on Shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
M39831	500 ml	Foaming Car Wash	Leaves a no-streak finish.
M38424	400 g	Velour Fabric and Vinyl Cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
M40383	350 g	Tyre and Bumper Shine	Restores tyres and bumpers to as new finish.
M39169	250 ml	Spot and Stain Remover	Removes spots and stains from carpet, velour, vinyl and most fabrics.
M38695	250 ml	Glass Cleaner	Cleans all glass surfaces.
M39826	500 ml	Optikleen	Windscreen washer solvent.
M39168	125 ml	Car Freshener/ Deodorant	Removes smells, tobacco and other odors.

HOLDEN'S PART NO.	SIZE	DESCRIPTION	USAGE
M39760	350 g	Spray Grease	Lithium based grease in a can. Sprays as a liquid. Ideal for springs, cables, linkages etc.
M40276	750 ml	Wheel Cleaner	Cleaning of all wheels, including alloy wheels.
1050002	470 ml	Top Engine Cleaner	Purges gum, carbon, varnish and sludge from internal parts.
92026651	500 ml	Brake Fluid	Extra heavy duty brake fluid.
M40236	1 litre	Radiator coolant/ inhibitor	Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers freezing point for the cold winter months. Coolant increases boiling point of the cooling system for the summer months.
M40307	5 litres	"	
M40238	20 litres	"	
M39304	500 ml	Radiator Cleaner	Use prior to or replacing coolant.
M37223	400 g	Degreaser	Removes oil and grease from engines.
M40235	300 g	AC-4	- dispenses moisture on wet motors and electrical parts. - Penetrates and loosens rusted or seized parts. - Lubricates and protects against corrosion. - Inhibits corrosion on battery terminals.
M33028	27g	Solid Oil	Lubricant for locking mechanisms, door hinges, sticking windows.

Chapter 10

Specifications

Page

10-2 Engine specifications

10-3 Transmission specifications

10-3 Rear axle specifications

10-4 Brake specifications

10-4 Steering specifications

10-4 General lubricants

10-4 Body dimensions

10-5 Identification numbers and plates

Engine Type	V6, 6 cylinder, Direct Fire Ignition, Port Fuel Injection	V8, 8 cylinder, Port Fuel Injection	L4, 4 cylinder, Port Fuel Injection
Piston Displacement	3791 cc	4987 cc	1998 cc
Cylinder numbering front to rear	driver's side: 2, 4, 6 passenger's: 1, 3, 5	driver's side: 1, 3, 5, 7 passenger's: 2, 4, 6, 8	1, 2, 3, 4
Firing Order	1, 6, 5, 4, 3, 2	1,2,7,8,4,5,6,3	1, 3, 4, 2
Compression Ratio	8·5:1	8·5:1	10:1
Bore	96·5 mm	101·6 mm	86 mm
Stroke	86·3 mm	76·8 mm	86 mm
Power kW @ rpm	127 @ 4,800	165 @ 4,400	85 @ 5,200
Torque Nm @ rpm	293 @ 3,600	385 @ 3,600	170 @ 3,000
Taxable Horsepower	34·6	51·2	18·34
Oil Specification	Service classification SF or SG. Viscosity grade 20W/40, for normal use. For prolonged use in snow areas, the use of 15W/40 is recommended.		
Refill Oil Capacity	3·8 litres approx.	4·9 litres approx.	4·5 litres approx.
(add for filter)	0·3 litres	0·3 litres	0·3 litres
Coolant Specification	50% water and 50% long life coolant conforming to Holden's Specification number HN 2043, part number M40236 (1 litre) or M40307 (5 litres) ✱		
Coolant Capacity	10 litres approx.	12 litres approx.	9·5 litres approx.
Spark Plug	R44LTS6	R42LTS	AC R42CXLS
Spark Plug Gap mm	1·4 ~ 1·5	1·0± 0·05	0·7 ~ 0·8
Surge/radiator Cap	120 ~ 150 kPa	110 kPa	120 ~ 150 kPa
Idle Mixture Settings	Idle mixture and idle speed are programmed into the ECM and cannot be changed. The throttle blade stop has been preset and capped and should not be altered.		

✱ The cooling system of 6 cylinder engines require 3 pellets to be added when the coolant is replaced (every 50,000 km), part no M40124.

AUTOMATIC TRANSMISSION

		V6	V8	L4
Gear ratios :1	1st	3.06	3.06	2.45
	2nd	1.63	1.63	1.45
	3rd	1.00	1.00	1.00
	4th	0.70	0.70	0.69
	Rev	2.29	2.29	2.22
Refill oil capacity (approx.)		4·8 litres	5·0 litres	5·0 litres
Fluid specification		Dexron ®IID or IIE	Dexron ® IID or IIE	Dexron ® IID or IIE

MANUAL TRANSMISSION

Gear ratios:1	1st	3.25	2.95	3.94
	2nd	1.99	1.94	2.21
	3rd	1.29	1.34	1.40
	4th	1.00	1.00	1.00
	5th	0.72	0.73	0.82
	Rev	3.15	2.76	3.69
Refill oil capacity (approx.)		2·05 litres	2·05 litres	1·2 litres
Fluid specification		Gear oil 75 W/90, GL4 to Holden's specification no HN 2013		SAE 80W GL3 gear oil meeting Holden's spec. HN 1820

REAR AXLE

Sedan/Wagon (except V6 SS)	Ratio	3·08 : 1	3·08 : 1	4·11 : 1
V6 SS only	Ratio	3·27 : 1		

Rear axle fluid:

Hypoid gear oil SAE 90 GL5 LSD grade to Holden's specification no. HN 1561 should be used in:

- all vehicles with 4 cylinder engines
- sedans and wagons with V6 engines (except if they are fitted with both IRS and LSD together)

Synthetic Differential Oil: Mobillube SHC SAE 80W-140 (I.D.) product code 51107, or equivalent to Holden's specification no HN 2040 should be used in:

- all vehicles fitted with V8 engines,
- all utilities
- vehicles with V6 engines that are fitted with both LSD *and* IRS together, e.g. V6 SS
- vehicles with 3·27:1 differential

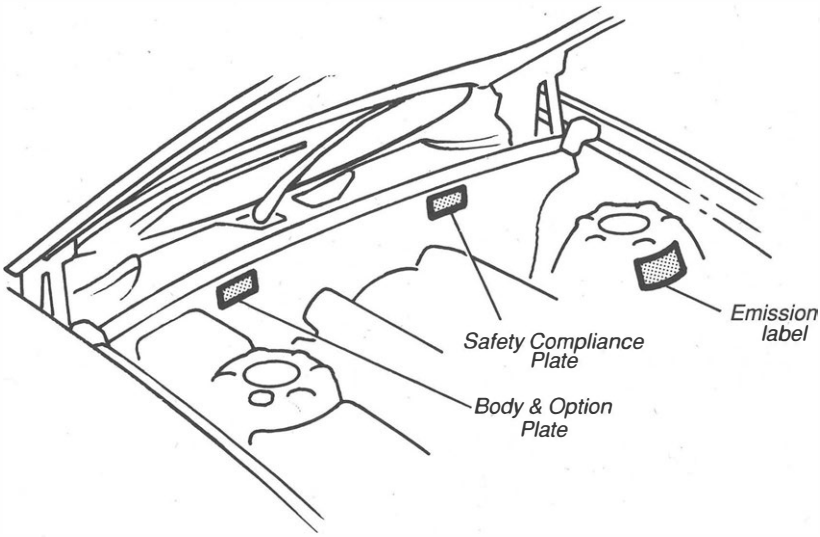
GENERAL LUBRICANTS

Brakes	Heavy duty hydraulic brake fluid to Holden's specification HN 1796 (Holden's part no 92026651).
Power Steering fluid	Dexron ® IID or IIE
Front wheel bearings	Special grease, non-soap, meeting Holden's specification HN 1227
Clutch cable clevises Constant velocity joint Clutch and brake pedal pivots Windshield wiper pivot points	Molybdenum Disulphide Grease, meeting Holden's specification no HN 1271
Bonnet catch, lock and hinges Door hinge and hold opens Boot/tailgate/endgate hinges & lock mechanisms Accelerator pedal pivots	No. 1 Lithium (Zinc Oxide) Grease, meeting Holden's specification no HN 1225
Door Lock fork and striker bolts	Solid Oil, Holden's part M33028
All lock cylinders	Powdered graphite (apply through key hole - do not oil)
Universal joints	Lithium grease, meeting Holden's specification no HN 1147

DIMENSIONS (mm)

	SEDAN			WAGON		UTILITY
	Exec.	Berlina	Calais	Exec.	Berlina	
Length	4890	4890	4890	4910	4910	4903
Width	1812	1812	1813	1812	1812	1812
Height	1403	1400	1406	1422	1474	1512
Wheel base	2731	2731	2735	2822	2822	2822
Overhang - front	953	953	953	953	953	953
Overhang - rear	1206	1206	1202	1135	1135	1128
Tread - front	1451	1451	1485	1451	1451	1451
Tread - rear	1478	1478	1487	1478	1478	1478

* → VP From camber change −7 mm tread.



BODY AND OPTION IDENTIFICATION PLATE

This plate shows model identification, body serial number, paint and trim colour combination, paint number, engine, transmission, axle ratio options, suspension options (where applicable) and built date.

The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined and the vehicle is driven or moved from the production line.

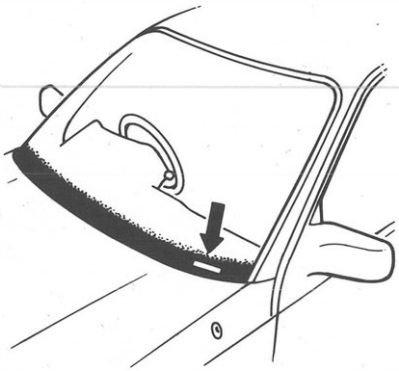
SAFETY COMPLIANCE PLATE (fitted as standard on Australian vehicles)

Shown on the plate are the vehicle Make, Model Series, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity, Gross Vehicle Mass (GVM) on utility and Approval Number.

EMISSION LABEL

This label shows the relevant tune-up information required to maintain minimum exhaust emissions.

VEHICLE IDENTIFICATION NUMBER (I.S.O.V.I.N.)



6 H 8 V P L 1 9 H M L 1 2 3 4 5 6

- Sequential Production Serial Number
- Assembly Plant Code: L=Elizabeth, S.A.
- Model Year Code: M=1991, N=1992
- Engine Code: H=V6, U=V8, E=L4
- Body Style Code: 19=Sedan, 35=Wagon, 80=Utility
- Degree of luxury: K=Executive, L=Berlina, X=Calais
- Model Code
- World Manufacturer Identifier: 6H8=Holden's

ENGINE NUMBER

Individual identification numbers are stamped onto every engine.

- L4 engine: On the engine block, below no. 4 spark plug.
- V6 engine: on the front, upper area of the engine block, on the passenger's side.
- V8 engine: above the dipstick, on the passenger's side of the engine block.

Chapter11

Service/Maintenance Schedule

Page

11-2 When to Have the Service Carried out

11-3 Extreme Operating Conditions

11-5 Maintenance Schedule

11-8 Service costs

11-10 Beginning of Maintenance Coupons

11-52 Notice of Name/ Address/ Ownership Change

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

1,500 km	- 1 month
10,000 km	- 6 months
20,000 km	- 1 year
30,000 km	- 1 year & 6 months
40,000 km	- 2 years
50,000 km	- 2 years & 6 months
60,000 km	- 3 years
70,000 km	- 3 years & 6 months
80,000 km	- 4 years
90,000 km	- 4 years & 6 months
100,000 km	- 5 years
110,000 km	- 5 years & 6 months
120,000 km	- 6 years
130,000 km	- 6 years & 6 months
140,000 km	- 7 years
150,000 km	- 7 years & 6 months
160,000 km	- 8 years
170,000 km	- 8 years & 6 months
180,000 km	- 9 years
190,000 km	- 9 years & 6 months
200,000 km	- 10 years

The one month (1,500 kilometres) service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer. Your Dealer will supply the necessary letter of Introduction upon request.

The services shown in this schedule between 20,000 km and 200,000 km are to be performed after 200,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Note that if service operations required disconnecting the battery (e.g. work to the electrical system of the car) you may wish to provide the servicing dealer with your P.I.N. so that he can re-activate the radio for you. Otherwise, you will have to input the P.I.N. yourself.....keep the P.I.N. in a safe but accessible place!

Failure to have proper maintenance services carries out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 6-2, so that you aware of the conditions.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important, as it will not only assist in determining Warranty Claims, but will enhance the value of the vehicle on resale.

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 km under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change manual transmission gear oil @ 40,000					E	
Change automatic transmission fluid and (V6 & V8) strainer @ 20,000 km				D	E	F
Inspect front suspension and steering for leaks, wear or damage @ 5,000 km	A	B				
Replace engine oil filter @ 5,000 km or 3 months (whichever comes first)	A					
Change engine oil @ 5,000 km or 3 months (whichever comes first)	A		C		E	F
Replace air cleaner element @ 20,000 km	A					
Inspect and clean linings of park brake @ 20,000 km	A	B				
V6 engines only. Change gear oil in Limited Slip Differential @ 20,000 km					E	F

A = Dust, dirt, loose road material.

B = Muddy and wet areas.

C = Cold weather (below 5°C) and when most trips are less than 5 km.

D = Stop-start driving, excessive idling or low speed operation as experienced in inner city driving e.g. taxi, door to door delivery.

E = Caravan or trailer towing.

F = Extended heavy load high speed operation in temperatures above 35°C.

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date..... Km.....

Items performed:.....

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Servicing

Dealer.....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date ..... Km.....

Items performed:.....

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Servicing

Dealer .....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date..... Km.....

Items performed:.....

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Servicing

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SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

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SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date..... Km.....

Items performed:.....

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Servicing

Dealer.....

SPECIAL SERVICE FOR EXTREME OPERATING CONDITIONS

Date ..... Km.....

Items performed:.....

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Servicing

Dealer .....

Use odometer reading or years, whichever occurs first	X 1000 km	1·5	10	20	30	40	50	60	70	80	90	100	110
	or years	1/12	0·5	1	1·5	2	2·5	3	3·5	4	4·5	5	5·5
UNDERHOOD OPERATIONS													
Change engine oil and engine oil filter.		x	x	x	x	x	x	x	x	x	x	x	x
Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.		x		x	x	x	x	x	x	x	x	x	x
Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.		x	x	x	x	x	x	x	x	x	x	x	x
(V6) Engine accessory drive belt. Check length indicator and belt condition.		x	x	x	x	x	x	x	x	x	x	x	x
(L4) Replace camshaft drive belt										x			
(V8 & L4) Check condition and tension of all engine drive belts using gauge.		x		x		x		x		x		x	
Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.		x		x	x	x	x	x	x	x	x	x	x
Drain and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Clean outside of the radiator and A/C condensor.							x					x	
Pressure test cooling system and cap.		x	x	x	x	x	x	x	x	x	x	x	x
Replace engine air cleaner element.						x				x			
Check PCV valve for correct operation.		x				x				x			
Replace spark plugs.					x			x			x		
(V8) Check ignition timing.		x					x				x		
(V8 & L4) Check cap and rotor.											x		
Check continuity of spark plug leads. Replace if necessary.								x					
Check carbon canister for leaks or restrictions.		x					x				x		

Use odometer reading or years, whichever occurs first	X 1000 km	1·5	10	20	30	40	50	60	70	80	90	100	110
	or years	1/12	0·5	1	1·5	2	2·5	3	3·5	4	4·5	5	5·5
UNDER VEHICLE OPERATIONS													
Replace fuel filter.						x				x			
Change limited slip differential gear oil.		x											
Check rear axle oil level.		x		x		x		x		x		x	
Check rear axle and auto trans for leaks.		x		x	x	x	x	x	x	x	x	x	x
Manual transmission. Check oil level.		x		x		x		x		x		x	
Manual transmission. Check for leaks.		x		x	x	x	x	x	x	x	x	x	x
Change auto transmission fluid and (V6 and V8)strainer.										x			
Inspect front and rear disc brake pads for wear and discs for surface condition.				x	x	x	x	x	x	x	x	x	x
Parking brake - check linings and drums for wear.						x				x			
Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.		x	x	x	x	x	x	x	x	x	x	x	x
Drain, refill and bleed brake system. Check brake performance when road testing.						x				x			
Check all brake and fuel lines and hoses for condition, attachment and routing.		x		x	x	x	x	x	x	x	x	x	x
Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.		x		x	x	x	x	x	x	x	x	x	x
Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.		x		x	x	x	x	x	x	x	x	x	x
Repack and adjust front wheel bearings.					x				x				x
Inspect CV joint for damaged or torn boot.				x	x	x	x	x	x	x	x	x	x
Clean & lubricate transmission shift linkage.					x				x				x
Lubricate clutch cable.				x		x		x		x		x	
Clean out A/C drain tubes.						x				x			

Use odometer reading or years, whichever occurs first	X 1000 km	1.5	10	20	30	40	50	60	70	80	90	100	110
	or years	1/12	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
INTERIOR VEHICLE OPERATIONS													
Check park brake operation, adjust if necessary.			X	X	X	X	X	X	X	X	X	X	X
Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.				X		X		X		X		X	
EXTERIOR VEHICLE OPERATIONS													
Lube hood catch, door hinges, check links and all lock cylinders				X		X		X		X		X	
Check transmitter performance of theft deterrent system.			X	X	X	X	X	X	X	X	X	X	X
Check operation of all exterior lights, inc stop and turn.		X	X	X	X	X	X	X	X	X	X	X	X
ROAD TEST													
Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.		X	X	X	X	X	X	X	X	X	X	X	X

1,500 km (1 month)
Labour: **free**
Parts: Limited Slip Diff. gasket (LSD without IRS), engine oil filter
Lubricants: LSD gear oil (if LSD fitted), engine oil

10,000 km (6 months)
Labour:0.5 hours
Parts: engine oil filter
Lubricants: engine oil

20,000 km (1 year)
Labour: 0·8 hours; add 0·1 hours for V8 or L4 engine
Parts: engine oil filter
Lubricants: engine oil

30,000 km (1 year and 6 months)
Labour: 1·5 hours; add 0·1 for V8 engine
Parts: engine oil filter; spark plugs; front wheel bearing seals
Lubricants: engine oil; wheel bearing grease

40,000 km (2 years)
Labour: 1·5 hours; 0·1 for V8 or L4 engine
Parts: engine oil filter; air cleaner element; fuel filter
Lubricants: engine oil; brake fluid

50,000 km (2 years and 6 months)
Labour: 1·1 hours; add 0·1 for V8 engine
Parts: engine oil filter; engine coolant; (V6 engine only) cooling system pellets
Lubricants: engine oil

60,000 km (3 years)
Labour: 1·2 hours; add 0·2 for V8 engine; add 0·1 for L4 engine
Parts: engine oil filter; spark plugs
Lubricants: engine oil

70,000 km (3 years and 6 months)
Labour: 1·3 hours
Parts: engine oil filter; front wheel bearing seals
Lubricants: engine oil; wheel bearing grease

80,000 km (4 years)
Labour: 1·5 hours; add 0·3 for V6 or V8 auto, add 0·2 for L4 auto; add 0·1 for V8 engine; add 0·3 for L4 engine
Parts: engine oil filter; air cleaner element; fuel filter; (V6 & V8 only) auto trans strainer and gasket; (L4 only) camshaft drive belt
Lubricants: engine oil; auto trans fluid; brake fluid

90,000 km (4 years and 6 months)
Labour: 1·0 hours; add 0·3 for V8 engine, add 0·1 for L4 engine
Parts: engine oil filter; spark plugs
Lubricants: engine oil

100,000 km (5 years)
Labour: 1·2 hours; add 0.1 for V8 or L4 engine
Parts: engine oil filter; engine coolant; (V6 engine only) cooling system pellets
Lubricants: engine oil

110,000 km (5 years and 6 months)
Labour: 1·3 hours
Parts: engine oil filter; front wheel bearing seals
Lubricants: engine oil; wheel bearing grease

.....continued

120,000 km (6 years)
Labour: 2·0 hours; add 0·2 for V8 engine; add 0·1 for L4 engine
Parts: engine oil filter; engine air cleaner element; spark plugs; fuel filter
Lubricants: engine oil, brake fluid

130,000 km (6 years and 6 months)
Labour: 0·7 hours; 0·1 for V8 engine
Parts: engine oil filter
Lubricants: engine oil

140,000 km (7 years)
Labour: 0·8 hours; add 0·1 for V8 or L4 engine
Parts: engine oil filter
Lubricants: engine oil

150,000 km (7 years and 6 months)
Labour: 2·0 hours; add 0·1 for V8 engine
Parts: engine oil filter; engine coolant; (V6 engine only) cooling system pellets; spark plugs; front wheel bearing seals
Lubricants: engine oil; wheel bearing grease

160,000 km (8 years)
Labour: 1·6 hours; add 0·3 for V6 or V8 auto; add 0·2 for auto L4 engine; add 0·3 for L4 engine; add 0·1 for V8 engine
Parts: engine oil filter; engine air cleaner element; fuel filter; (V6 & V8 engines only) auto trans strainer and gasket; (L4 only) camshaft drive belt
Lubricants: engine oil; auto trans fluid; brake fluid

170,000 km (8 years and 6 months)
Labour: 0·7 hours; add 0.2 for V8 engine; add 0·1 for L4 engine
Parts: engine oil filter
Lubricants: engine oil

180,000 km (9 years)
Labour: 1·2 hours; add 0·2 for V8 engine; add 0·1 for L4 engine
Parts: engine oil filter; spark plugs
Lubricants: engine oil

190,000 km (9 years and 6 months)
Labour: 1·3 hours
Parts: engine oil filter; front wheel bearing seals
Lubricants: engine oil; wheel bearing grease

200,000 km (10 years)
Labour: 2·0 hours; add 0·1 for V8 or L4 engine
Parts: engine oil filter; engine coolant; (V6 engine only) cooling system pellets; engine air cleaner element; fuel filter
Lubricants: engine oil; brake fluid

- The owner will be charged for all lubricants and materials used plus labour at the times recommended above.
- The repair or replacement of any part found faulty during a service check and not covered by Holden's Warranty will be added to the charges. Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

1,500 km *or* 1 month Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr. / Mrs. / Miss. / Other..... .....

Address .....

Town & State..... Postcode.....

Reg. no..... Eng. no.....

I.S.O.V.I.N. ..... Model.....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State.....

Owner's Signature.....

The owner will be charged for the following parts and lubricants, required to complete this service:

- labour: *free*
- engine oil and engine oil filter
- Limited Slip Diff oil (if fitted)
- Limited Slip Diff gasket (for LSD without IRS)

1,500 km *or* 1 month SERVICE VALIDATION

This vehicle has been thoroughly checked in accordance with the 1,500 km/one month service.

Dealer .....

Service Manager's Signature.....

Date..... Odometer Reading.....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Check PCV valve for correct operation.
	(V8) Check ignition timing.
	Check carbon canister for leaks or restrictions.

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level, check for leaks.
	Auto transmission. Check for leaks.
	Change fluid in Limited Slip Diff (if fitted).
	Manual transmission. Check oil level, check for leaks.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

10,000 km *or* 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 0.5 hours labour
engine oil and oil filter

There will also be a charge for additional services as requested:

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.....

Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	Pressure test cooling system and cap.

Servicing Dealer .....
Date of Service .....
Odometer .....
Signed .....
Additional Services performed .....

10,000 km *or* 6 months SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

20,000 km *or* 1 year Service Coupon

HOLDEN & WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 0·8 hours labour; add 0·1 for V8 or L4 engines
engine oil and engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.

Servicing Dealer .....
Date of Service .....
Odometer .....
Signed .....
Additional Services performed .....

20,000 km or 1 year SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level and check for leaks.
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level and check for leaks.
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

30,000 km *or* 1 year & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·5 hours labour; add 0·1 for V8 engine
engine oil
engine oil filter
spark plugs
wheel bearing grease
front wheel bearing seals

There will also be a charge for additional services as requested:

.....

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace spark plugs.

30,000 km *or* 1 year & 6 months SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Check rear axle and auto transmission for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Repack and adjust front wheel bearings
	Inspect CV joint for torn or damaged boot.
	Clean and lubricate transmission shift linkage.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

40,000 km *or* 2 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·5 hours labour; add 0·1 for V8 or L4 engine
engine oil
engine oil filter
engine air cleaner element
fuel filter
brake fluid

There will also be a charge for additional services as requested:

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.....

Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace engine air cleaner element.
	Check PCV valve for correct operation

UNDER VEHICLE OPERATIONS

	Replace fuel filter.
	Rear axle. Check oil level and check for leaks.
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level and check for leaks.

Additional Services performed .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

40,000 km *or* 2 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS cont.

	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Parking brake - check linings and drums for wear.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Drain, refill and bleed brake system. Check brake performance when road testing.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable
	Clean out A/C drain tubes

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

50,000 km *or* 2 years & 6 months Service Coupon

11-20

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·1 hours labour; add 0·1 for V8 engine
engine oil
engine oil filter
engine coolant
V6 only - cooling system pellets

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Drain and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Clean outside of the radiator and A/C condensor.
	Pressure test cooling system and cap.
	(V8) Check ignition timing
	Check carbon canister for leaks or restrictions.

50,000 km *or* 2 years & 6 months SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines, and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

60,000 km *or* 3 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·2 hours labour; add 0·2 for V8 engine; add 0·1 for L4
engine oil
engine oil filter
spark plugs

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace spark plugs. Check continuity of spark plug leads, replace if necessary.

Additional Services performed .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

60,000 km or 3 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level and check for leaks.
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

70,000 km *or* 3 years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:

1·3 hours labour
engine oil
engine oil filter
wheel bearing grease
front wheel bearing seals

There will also be a charge for additional services as requested:

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.....

Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

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70,000 km *or* 3 years & 6 months SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Repack and adjust front wheel bearings
	Inspect CV joint for torn or damaged boot.
	Clean and lubricate transmission shift linkage.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

80,000 km *or* 4 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·5 hours labour; add 0·3 for V6 or V8 auto; add 0·2 for L4 auto; add 0·1 for V8 engine; add 0·3 for L4 engine
engine oil and engine oil filter
fuel filter, brake fluid, air cleaner element
auto trans fluid, V6 & V8 only - auto trans strainer and gasket
L4 only -camshaft drive belt

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check fluid levels: power steering, washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(L4) Replace camshaft drive belt.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace engine air cleaner element.
	Check PCV valve for correct operation

UNDER VEHICLE OPERATIONS

	Replace fuel filter.
	Rear axle. Check oil level and check for leaks.
	Manual transmission. Check oil level and check for leaks.
	Auto trans. Change fluid & (V6 & V8) strainer. Check for leaks.

Servicing Dealer ..... Additional Services performed .....

Date of Service .....

Odometer .....

Signed .....

80,000 km *or* 4 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS cont.

	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Parking brake - check linings and drums for wear.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Drain, refill and bleed brake system. Check brake performance when road testing.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat bulld up In the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable
	Clean out A/C drain tubes

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

90,000 km *or* 4years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1 hour labour; add 0·3 for V8 engine; add 0·1 for L4
engine oil
engine oil filter
spark plugs

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace spark plugs.
	(V8) Check ignition timing
	(V8 & L4) Check cap and rotor.
	Check carbon canister for leaks or restrictions.

90,000 km *or* 4 years & 6 months SERVICE VALIDATION

Servicing Dealer .....
Date of Service .....
Odometer .....
Signed .....
Additional Services performed .....
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UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level and check for leaks.
	Automatic transmission. Check for leaks
	Manual transmission. Check oil level, check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

110,000 km *or* 5 years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:

1·3 hours labour
engine oil
engine oil filter
wheel bearing grease
front wheel bearing seals

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.

Additional Services performed .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

110,000 km *or* 5 years & 6 months SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Repack and adjust front wheel bearings
	Inspect CV joint for torn or damaged boot.
	Clean and lubricate transmission shift linkage.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

120,000 km *or* 6 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 2 hours labour; add 0·2 for V8 engine; add 0·1 for L4 engine
engine oil and engine oil filter
engine air cleaner element
fuel filter
brake fluid
spark plugs

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check fluid levels: power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace engine air cleaner element.
	Check PCV valve for correct operation
	Replace spark plugs. Check continuity of spark plug leads, replace if necessary.

UNDER VEHICLE OPERATIONS

	Replace fuel filter.
	Rear axle oil level. Check oil level and check for leaks.
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level and check for leaks.

Additional Services performed .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

120,000 km *or* 6 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS cont.

	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Parking brake - check linings and drums for wear.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Drain, refill and bleed brake system. Check brake performance when road testing.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable
	Clean out A/C drain tubes

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

130,000 km *or* 6 years & 6 months Service Coupon

HOLDEN & WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 0·7 hours labour; add 0·1 for V8 engine
engine oil
engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	(V8) Check ignition timing
	Check carbon canister for leaks or restrictions.

130,000 km *or* 6 years & 6 months SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

140,000 km *or* 7 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 0·8 hours labour; add 0·1 for V8 or L4 engine
engine oil
engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.

140,000 km *or* 7 years SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level and check for leaks.
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level and check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

150,000 km *or* 7 years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:
2·0 hours labour; add 0·1 for V8 engine
engine oil and engine oil filter
engine coolant
(V6 only) cooling system pellets
spark plugs
wheel bearing grease and front wheel bearing seals

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Drain and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Clean outside of the radiator and A/C condensor.
	Pressure test cooling system and cap.
	Replace spark plugs.

150,000 km *or* 7 years & 6 months SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

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UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Repack and adjust front wheel bearings
	Inspect CV joint for torn or damaged boot.
	Clean and lubricate transmission shift linkage.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

160,000 km *or* 8 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:

1·6 hours labour; add 0·3 for V6 or V8 auto; add 0·2 for L4 auto; add 0·3 for L4 engine; add 0·1 for V8 engine
engine oil and engine oil filter
engine air cleaner element; fuel filter; brake fluid
auto trans fluid, V6 & V8 only - auto trans strainer and gasket
L4 - camshaft drive belt

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check fluid levels: power steering, washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(L4) Replace camshaft drive belt
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace engine air cleaner element.
	Check PCV valve for correct operation

UNDER VEHICLE OPERATIONS

	Replace fuel filter.
	Rear axle. Check oil level and check for leaks.
	Manual transmission. Check oil level and check for leaks
	Auto transmission. Change fluid and (V6 & V8) strainer. Check for leaks.

Additional Services performed .....

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Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

160,000 km *or* 8 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS cont.

	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Parking brake - check linings and drums for wear.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Drain, refill and bleed brake system. Check brake performance when road testing.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable
	Clean out A/C drain tubes

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

170,000 km *or* 8 years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 0·7 hours labour; add 0·2 for V8 engine; add 0·1 for L4 engine
engine oil
engine oil filter

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	(V8) Check ignition timing
	(V8 & L4) Check cap and rotor.
	Check carbon canister for leaks or restrictions.

170,000 km *or* 8 years & 6 months SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

180,000 km *or* 9 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed: 1·2 hours labour; add 0·2 for V8 engine; add 0·1 for L4
engine oil
engine oil filter
spark plugs

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.
	Replace spark plugs. Check continuity of spark plug leads replace if necessary.

180,000 km *or* 9 years SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services performed .....

UNDER VEHICLE OPERATIONS

	Rear axle. Check oil level and check for leaks
	Manual transmission. Check oil level and check for leaks
	Automatic transmission. Check for leaks.
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

190,000 km *or* 9 years & 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:

1·3 hours labour
engine oil
engine oil filter
wheel bearing grease
front wheel bearing seals

There will also be a charge for additional services as requested:

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Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check all fluid levels: brake, power steering, auto trans., washer. Check inhibitor level and % with tester.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Pressure test cooling system and cap.

Servicing Dealer .....
Date of Service .....
Odometer .....
Signed .....
Additional Services performed .....

190,000 km *or* 9 years & 6 months SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Check rear axle and auto trans for leaks.
	Manual transmission. Check for leaks
	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Repack and adjust front wheel bearings
	Inspect CV joint for torn or damaged boot.
	Clean and lubricate transmission shift linkage.

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.

EXTERIOR VEHICLE OPERATIONS

	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

200,000 km *or* 10 years Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for the time, parts, and lubricants, as listed:

2·0 hours labour; add 0·1 for V8 or L4 engine
engine oil and engine oil filter
engine coolant; (V6 only) cooling system pellets
engine air cleaner element
fuel filter
brake fluid

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

UNDERHOOD OPERATIONS

	Change engine oil and engine oil filter.
	Check fluid levels: power steering, auto trans., washer.
	Check open circuit voltage, electrolyte and fluid level (where applicable) of battery.
	(V6) Engine accessory drive belt. Check length indicator and belt condition.
	(V8 & L4) Check condition and tension of all engine drive belts using gauge.
	Check for signs of deterioration and/or leaks from engine, fluid reservoirs, air ducts, all hoses and clamps.
	Drain and refill cooling system with pre-mixed coolant comprising water and recommended inhibitor. Clean outside of the radiator and A/C condensor.
	Pressure test cooling system and cap.
	Replace engine air cleaner element.
	Check PCV valve for correct operation

UNDER VEHICLE OPERATIONS

	Replace fuel filter.
	Rear axle. Check oil level and check for leaks
	Automatic transmission. Check for leaks.
	Manual transmission. Check oil level and check for leaks

Servicing Dealer ..... Additional Services performed .....

Date of Service .....

Odometer .....

Signed .....

200,000 km or 10 years SERVICE VALIDATION

UNDER VEHICLE OPERATIONS cont.

	Inspect front and rear disc brake pads for wear and discs for surface condition.
	Parking brake - check linings and drums for wear.
	Inspect tyres for irregular wear or damage. Also check for damaged wheels and advise owner of any corrective maintenance required. Check inflation pressures.
	Drain, refill and bleed brake system. Check brake performance when road testing.
	Check all brake and fuel lines and hoses for condition, attachment and routing.
	Inspect front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect power steering lines and hoses for condition, attachment and routing leaks, etc. Check condition of all rubber boots and covers.
	Inspect exhaust system and underbody near the exhaust system. Look for damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build up in the floor pan or could let exhaust fumes seep into the passenger compartment.
	Inspect CV joint for torn or damaged boot.
	Lubricate clutch cable
	Clean out A/C drain tubes

INTERIOR VEHICLE OPERATIONS

	Check park brake operation, adjust if necessary.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism operation. Report any deficiencies.

EXTERIOR VEHICLE OPERATIONS

	Lube hood catch, door hinges, check links and all lock cylinders
	Check transmitter performance of theft deterrent system.
	Check operation of all exterior lights, inc stop and turn.

ROAD TEST

	Check vehicle on the road for braking, steering, engine response and transmission operation. Check operation of cruise control. Check park pawl operation. Check A/C performance. Check neutral start switch. Check and report any abnormal conditions.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address, or subsequent owner's who purchase the vehicle, fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name / Address Ownership Change

PLEASE TICK☑ APPROPRIATE SQUARE

❑ NAME/ADDRESS CHANGE

❑ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss. Other..... .....

Address.....

Town.....

State .....Postcode .....

Registration No. .....

Vehicle Identification Number (I.S.O.V.I.N.) .....
(Refer Chapter10 for location of I.S.O.V.I.N.)

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Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

Place in an envelope and mail to:

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